FUNAI

SERVICE MANUAL

This Service Manual is for the
LH8-M40BB (A03P0EP) / LT8-M40BB (A03P1EP) model.
For the LH8-M40BB (A03P0EP) / LT8-M40BB (A03P1EP) model, the letter (A03P0EP) / (A03P1EP) is printed on the Serial Number Label on the back of the unit. Refer to the Serial Number Label below.

Serial No. Label

"A03P0EP"

Serial No. Label

"A03P1EP"

40″ COLOR LCD TELEVISION

LH8-M40BB / LT8-M40BB

40″ COLOR LCD TELEVISION

LH8-M40BB / LT8-M40BB

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The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

SPECIFICATIONS

< TUNER >

VHS/UHF Input ---------- 75Ω unbal., IEC Connector
Center IF ---------- SECAM-L 38.9MHz, SECAM-L' 33.9MHz

Description	Condition	Unit	Nominal	Limit
1. Video S/N	80	dB	---	40
2. Audio S/N	---	dB	---	40/40

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal Vertical	pixels pixels	1920 1080	--- ---
2. Viewing Angle	Horizontal Vertical	° °	-88 to 88 -88 to 88	--- ---

<DVB-T>

Description	Condition	Unit	Nominal	Limit
1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1, *2	+ -	kHz kHz	1000 900	500 167
2. INPUT DYNAMIC RANGE (mix./max)	①:*1 VHF HIGH 8ch. UHF 45ch.	dBuV dBuV	25/101 25/101	28/98 29/98
	②:*2 VHF HIGH 8ch. UHF 45ch.	dBuV dBuV	18/101 18/101	21/98 21/98
3. C/N PERFORMANCE (-50dBm)	①:*1 VHF HIGH 8ch. UHF 45ch.	dB dB	15 15	≦18 ≦18
	②:*2 VHF HIGH 8ch. UHF 45ch.	dB dB	11 11	≦14 ≦14
4. MULTIPATH (-50dBm) a. Performance with short delay echoes b. Performance with long delay echoes	UHF 45ch. ①:*3 ②:*4 ①:*3 ②:*4	 dB dB dB dB	 18.7 14.0 19.1 13.0	 ≦23 ≦20 ≦23 ≦18

*1: modulation parameters = [8k 64QAM CR=2/3 GI=1/32]
*2: modulation parameters = [8k 16QAM CR=3/4 GI=1/8]
*3: modulation parameters = [2k 64QAM CR=2/3 GI=1/32]
*4: modulation parameters = [2k 16QAM CR=3/4 GI=1/32]

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	--- ---
2. Color Temperature	AT 70% WHITE FIELD x y	°K	9200 0.286 0.295	--- ±0.008 ±0.008
3. Resolution	Horizontal Vertical	line line	400 350	--- ---
4. Brightness	AT 100% WHITE FIELD	cd/m^2	450	---

< AUDIO >

All items are measured across 8 Ω load at speaker output terminal.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	10.0/10.0	8.0/8.0
2. Audio Distortion	500mW: Lch/Rch	%	1.5/1.5	3.0/3.0
3. Audio Freq. Response	−6dB: Lch −6dB: Rch	Hz Hz	70 to 10 k 70 to 10 k	--- ---
4. Audio S/N	Lch/Rch	dB	---	≧45/45

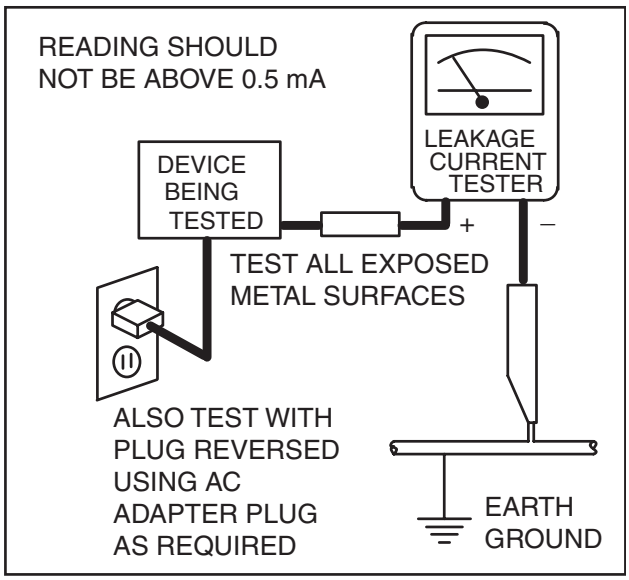
Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer,** always make a safety check of the entire instrument, including, but not limited to, the following items:
   - **a.** Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   - **b.** Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the LCD module and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   - **c. Antenna Cold Check -** With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   - **d. Leakage Current Hot Check -** With the instrument completely reassembled, plug the AC line cord directly into a 230 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the LCD module.
3. **Design Alteration Warning -** Do not alter or add to the mechanical or electrical design of this LCD TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Hot Chassis Warning -**
   a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
   b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
   c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
7. **Product Safety Notice -** Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc.. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1) Insulation Tape
2) PVC tubing
3) Spacers
4) Insulators for transistors.

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 5~6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.

L. When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	≥ 3mm(d) ≥ 8mm(d')

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

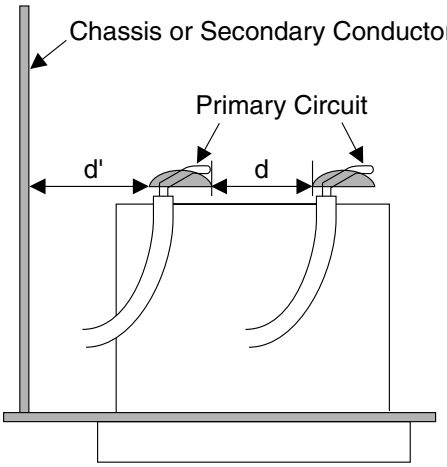


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

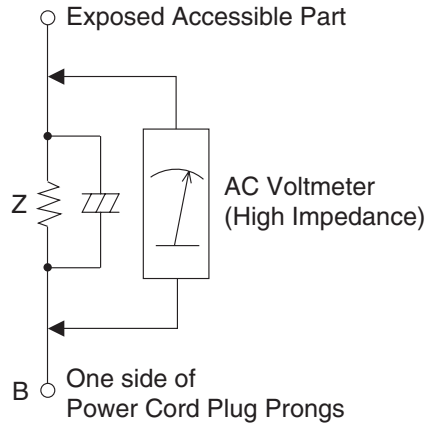


Fig. 2

Table 2: Leakage current ratings for selected areas

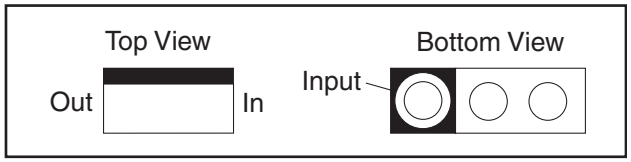
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

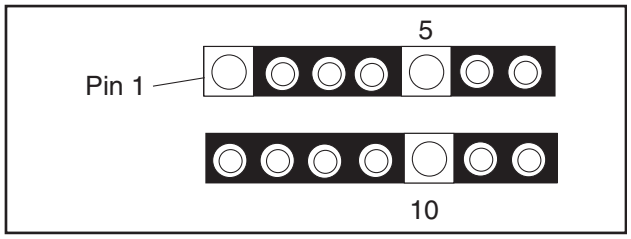
STANDARD NOTES FOR SERVICING

Circuit Board Indications

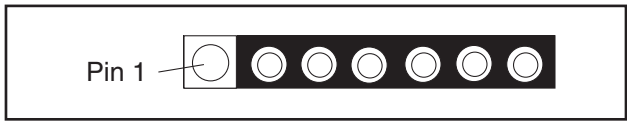
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

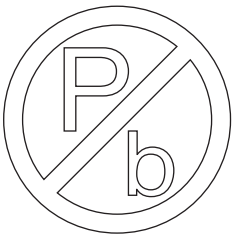


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

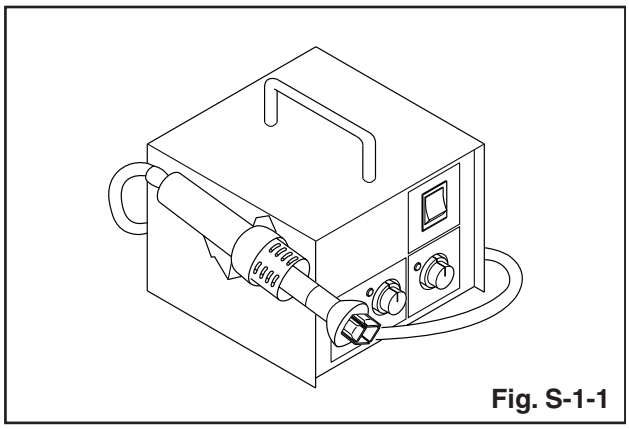


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

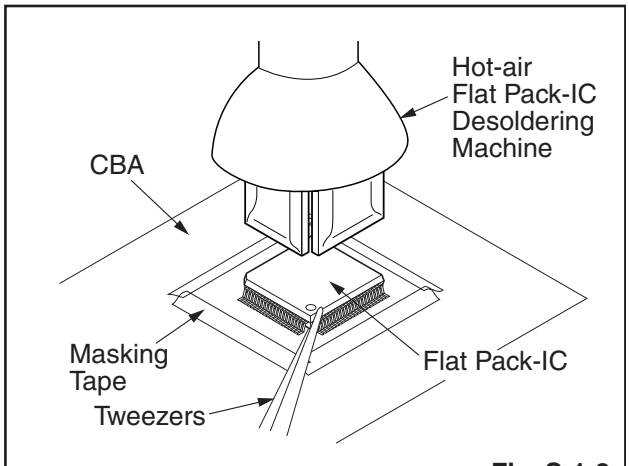


Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

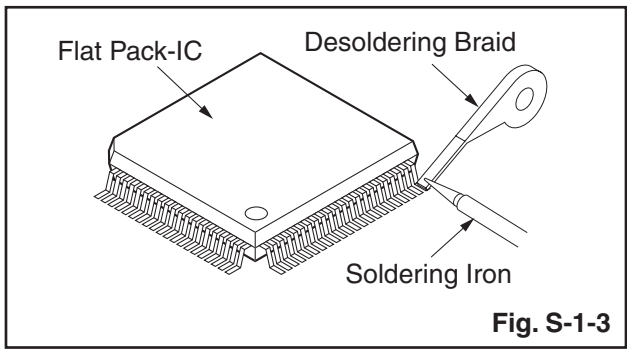


Fig. S-1-3

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

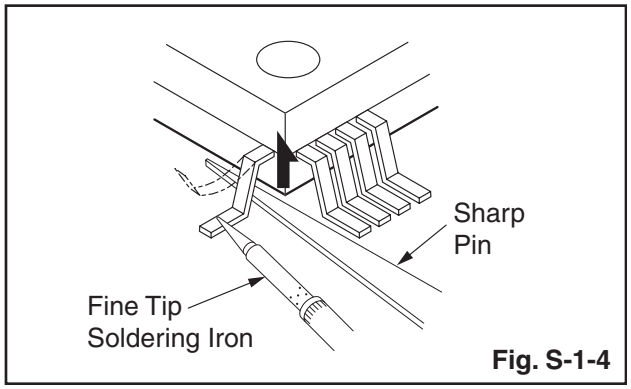


Fig. S-1-4

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

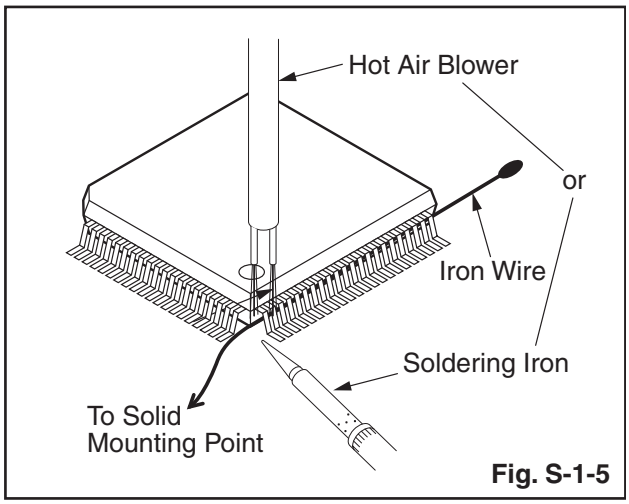


Fig. S-1-5

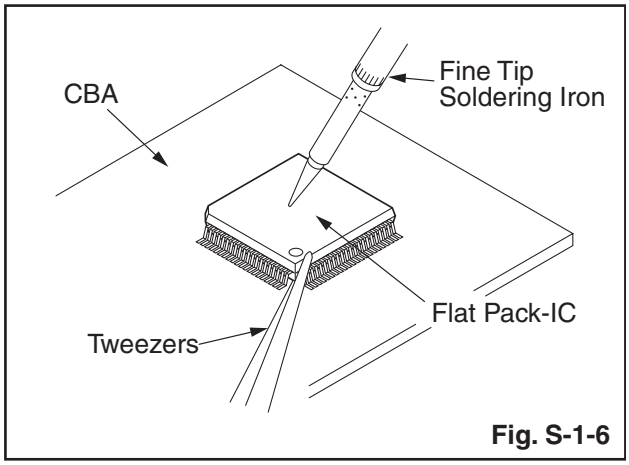


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the pin 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

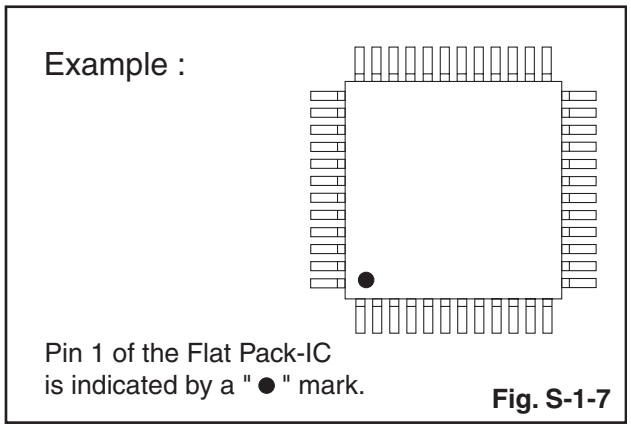


Fig. S-1-7

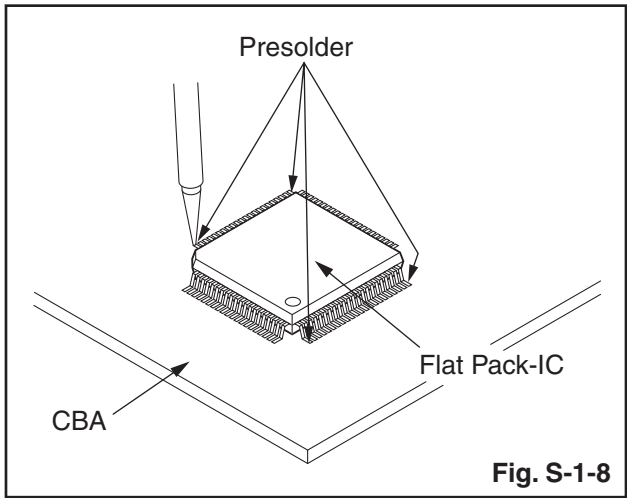


Fig. S-1-8

Instructions for Handling Semi-conductors

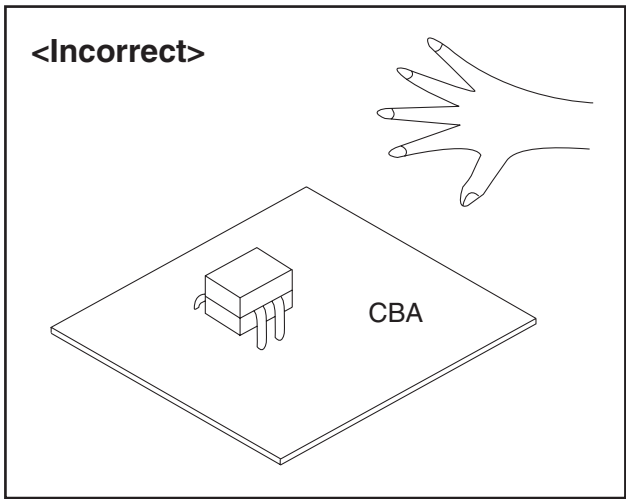
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

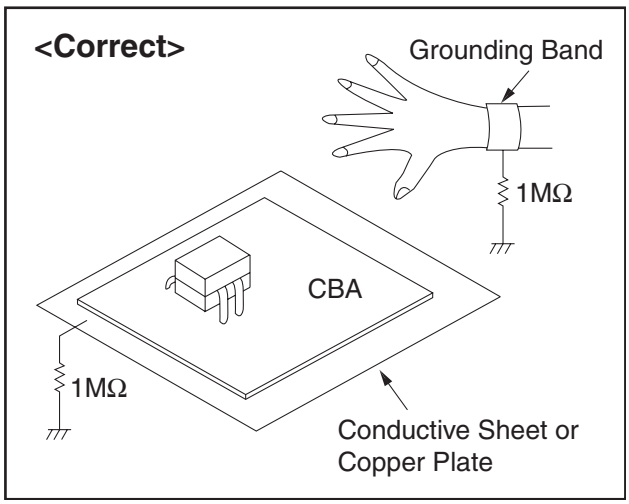
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

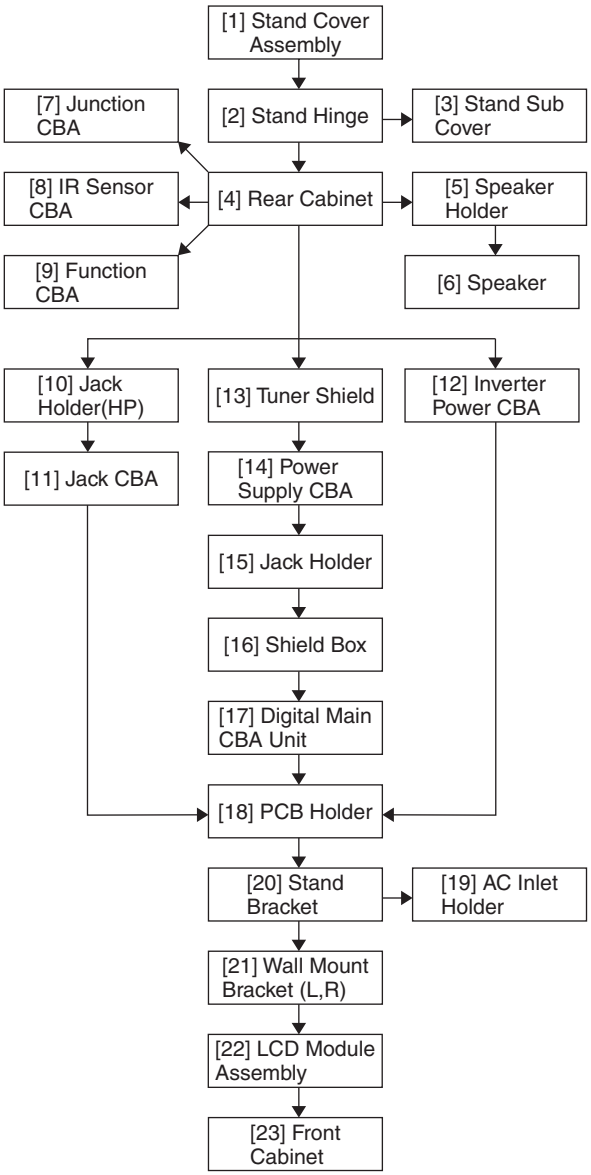




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Stand Cover Assembly	D1	6(S-1)	---
[2]	Stand Hinge	D1	4(S-2), 2(S-3), 2(S-4)	---
[3]	Stand Sub Cover	D1	----------	---
[4]	Rear Cabinet	D1	20(S-5), 4(S-6), 2(S-7), (S-8), (S-9)	---
[5]	Speaker Holder	D2 D6	4(S-10), *CN801, *CN802	---
[6]	Speaker	D2	----------	---
[7]	Junction CBA	D2 D6	*CN101, *CL102B	---
[8]	IR Sensor CBA	D2 D6	(S-11), *CL103B	---
[9]	Function CBA	D2 D6	Function Knob, Knob Frame	---
[10]	Jack Holder (HP)	D3	(S-12)	---
[11]	Jack CBA	D3 D6	2(S-13), *CL201B	---
[12]	Inverter Power CBA	D3 D6	4(S-14), *CN1801, *CN1810, *CN1851, *CN1852	---
[13]	Tuner Shield	D4	2(S-15)	---
[14]	Power Supply CBA	D4 D6	6(S-16), *CN401, *CN402, *CN403, *CN404, *CN452, *CN601	---
[15]	Jack Holder	D4	2(S-17)	---
[16]	Shield Box	D4	9(S-18), 2(S-19), 2(H-1), *CN3903	---
[17]	Digital Main CBA Unit	D4 D6	----------	---
[18]	PCB Holder	D4	4(S-20)	---
[19]	AC Inlet Holder	D5	2(S-21)	---
[20]	Stand Bracket	D5	4(S-22), 4(S-23)	---
[21]	Wall Mount Bracket (L,R)	D5	4(S-24)	---
[22]	LCD Module Assembly	D5	3(S-25), 6(S-26)	---
[23]	Front Cabinet	D5	----------	---
		↓ (1)	↓ (2)	↓ (3) ↓ (4) ↓ (5)

Note:

(1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.

(2) Parts to be removed or installed.

(3) Fig. No. showing procedure of part location

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

N = Nut, L = Locking Tab, S = Screw,
H = Hex Screw, CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5) Refer to the following "Reference Notes in the Table."

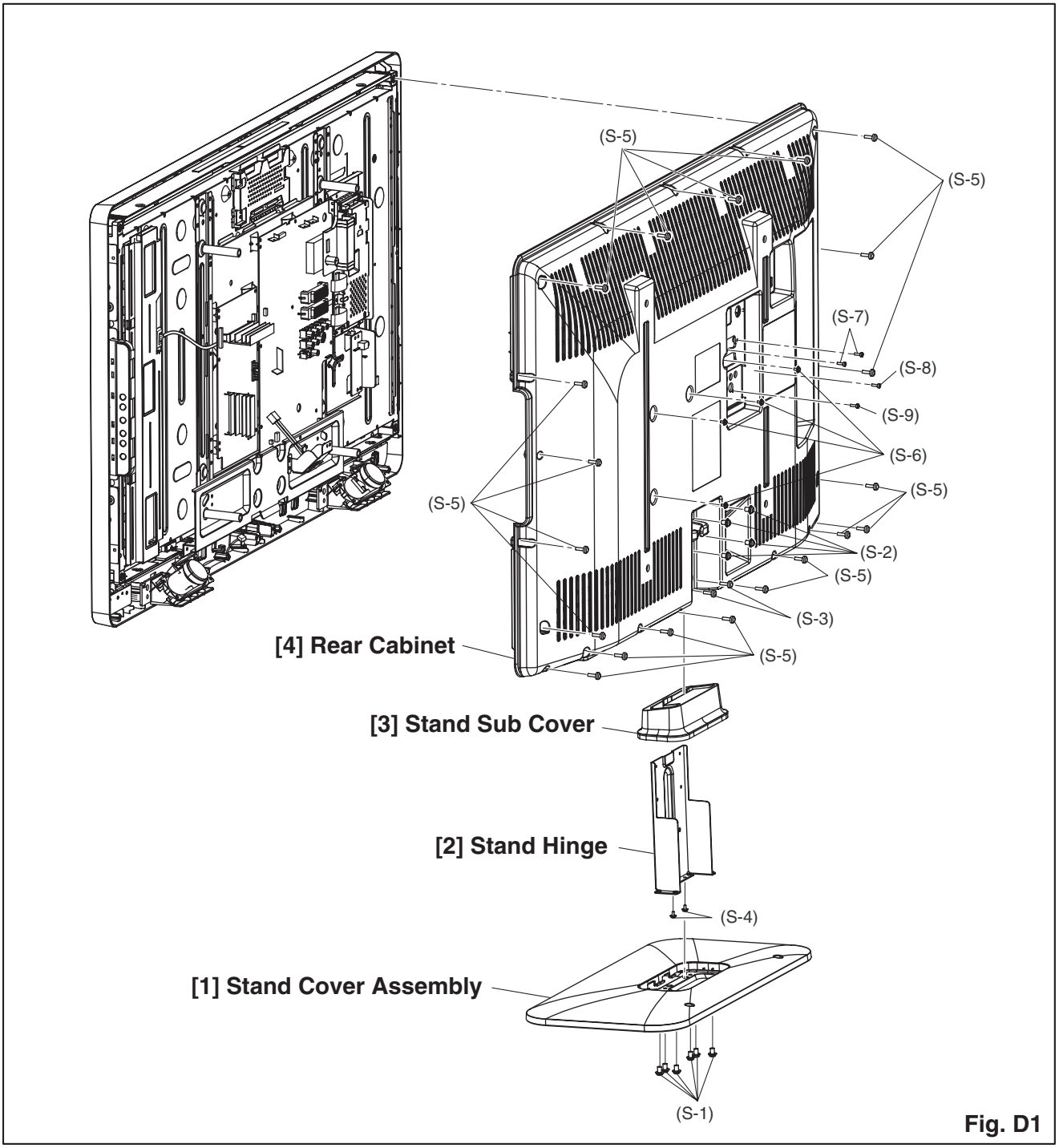


Fig. D1

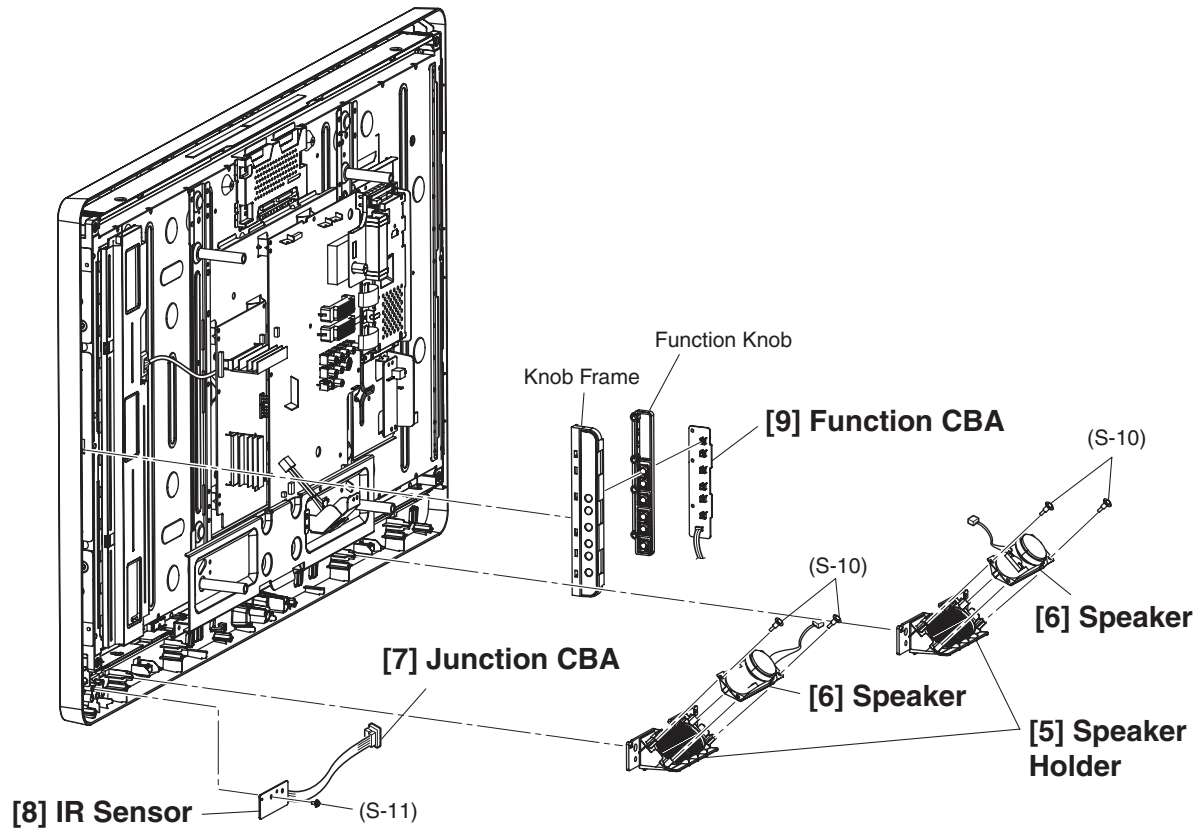

Function Knob
Knob Frame
[9] Function CBA
(S-10)
(S-10)
[6] Speaker
[7] Junction CBA
[6] Speaker
[5] Speaker Holder
[8] IR Sensor CBA
(S-11)

Fig. D2

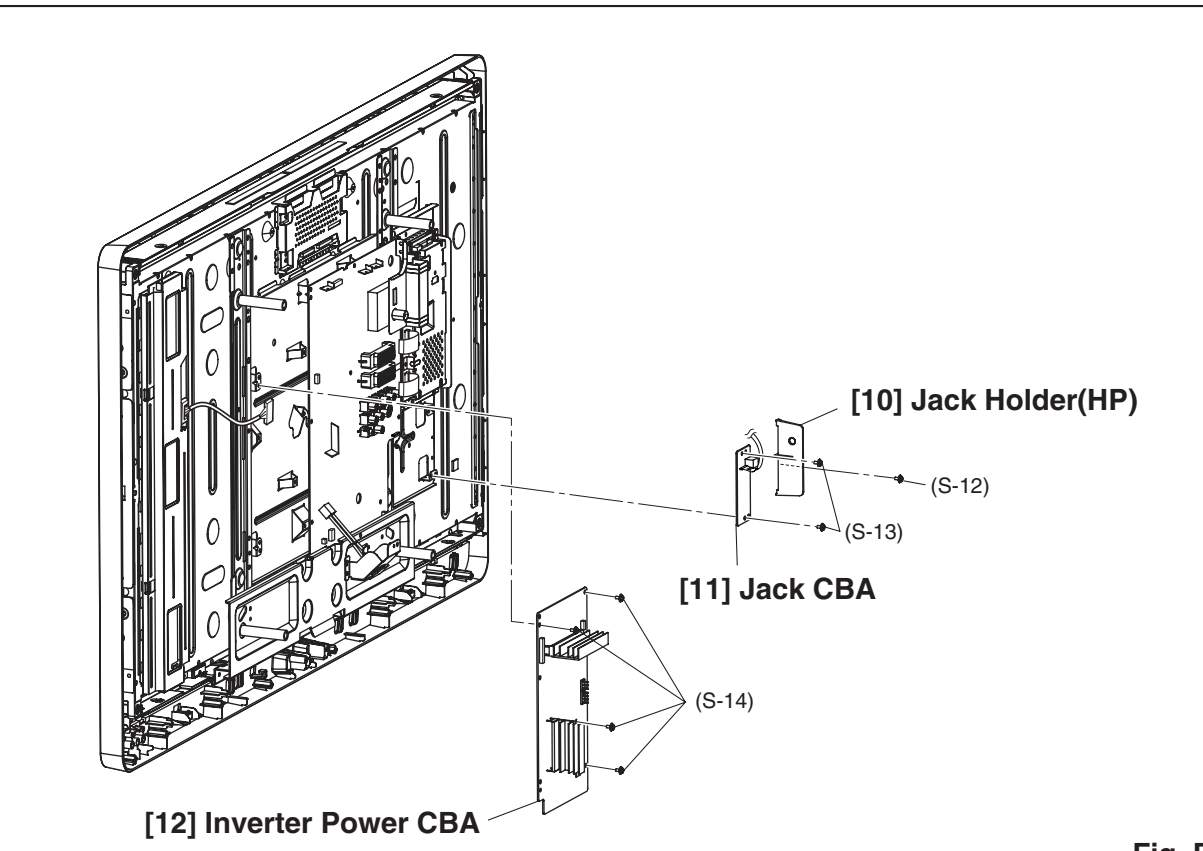

[10] Jack Holder(HP)
(S-12)
(S-13)
[11] Jack CBA
(S-14)
[12] Inverter Power CBA

Fig. D3

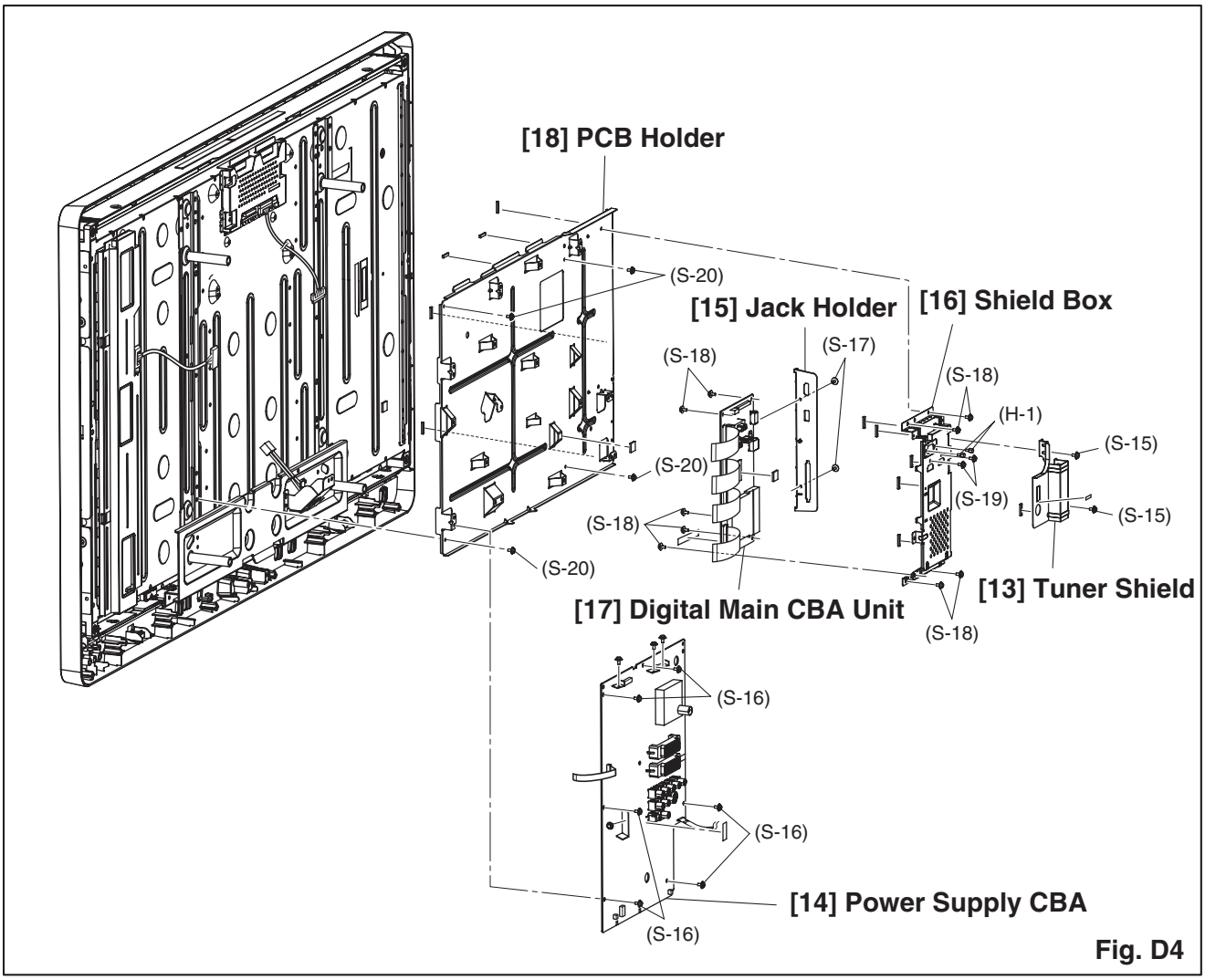

[18] PCB Holder
(S-20)
[15] Jack Holder
[16] Shield Box
(S-17)
(S-18)
(S-18)
(H-1)
(S-15)
(S-20)
(S-19)
(S-18)
(S-15)
(S-20)
[13] Tuner Shield
[17] Digital Main CBA Unit
(S-18)
(S-16)
(S-16)
[14] Power Supply CBA
(S-16)

Fig. D4

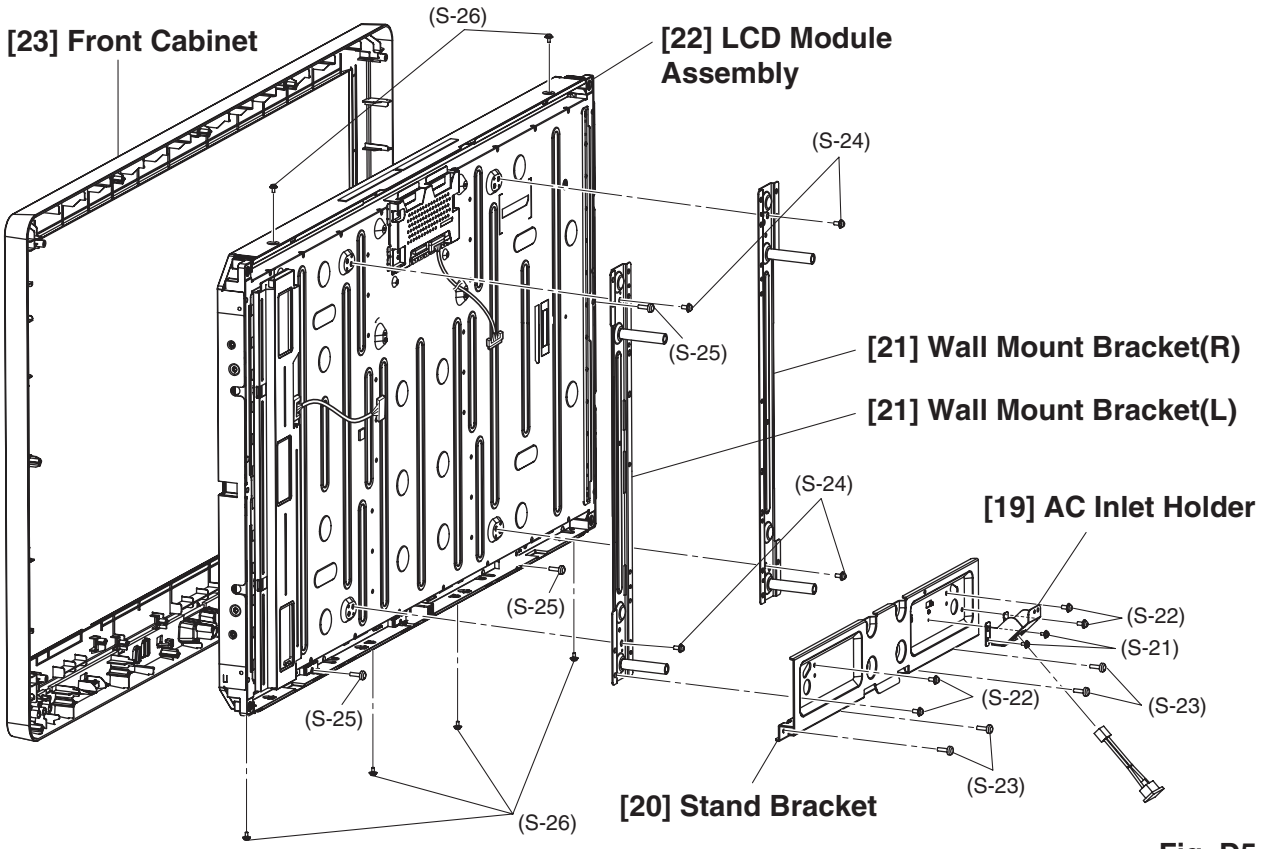

[23] Front Cabinet
(S-26)
[22] LCD Module Assembly
(S-24)
(S-25)
[21] Wall Mount Bracket(R)
[21] Wall Mount Bracket(L)
(S-24)
[19] AC Inlet Holder
(S-25)
(S-22)
(S-21)
(S-22)
(S-23)
(S-25)
(S-23)
(S-26)
[20] Stand Bracket

Fig. D5

3. TV Cable Wiring Diagram

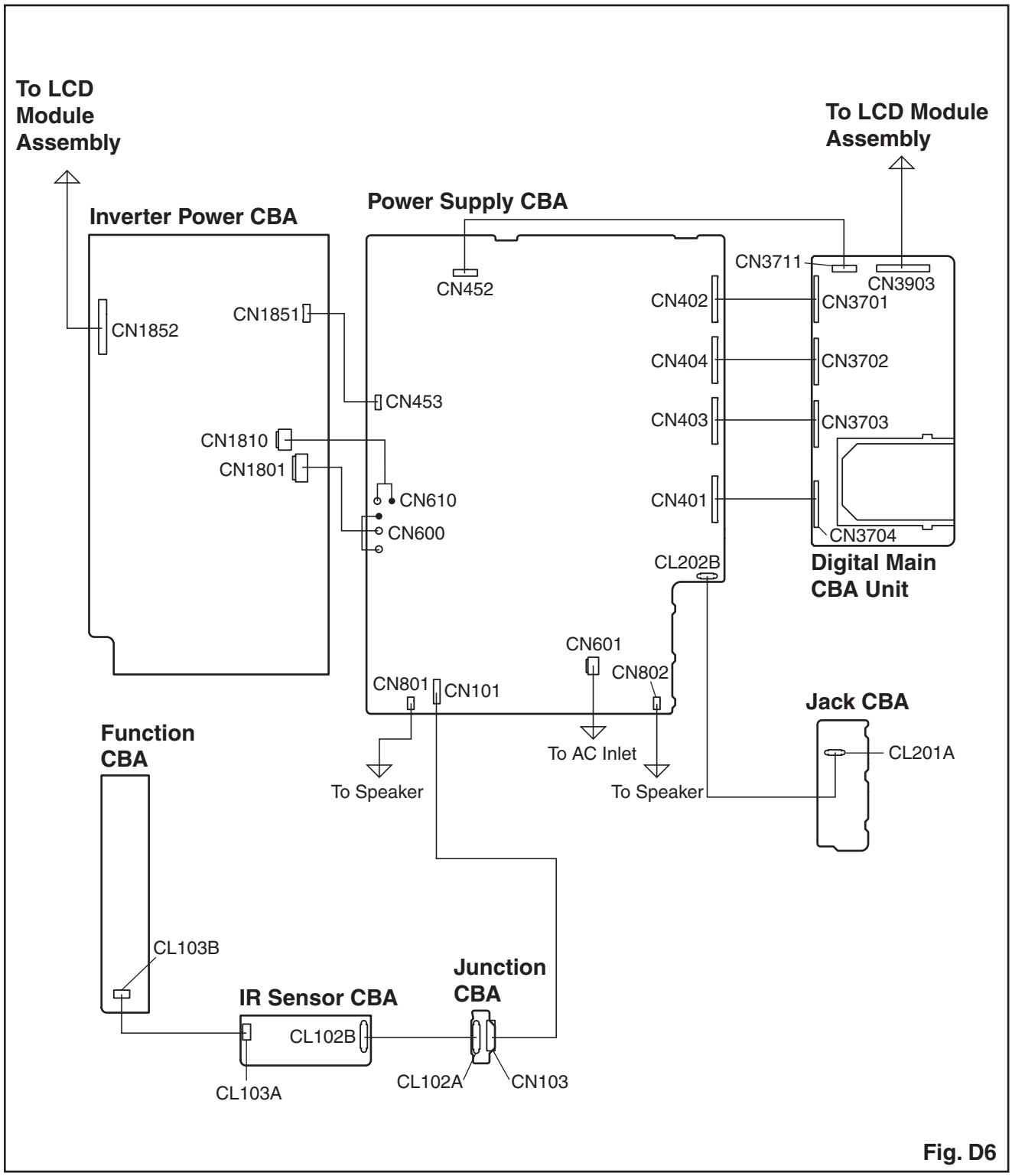


Fig. D6

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: “CBA” is abbreviation for “Circuit Board Assembly.”

Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.
Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. Pattern Generator
2. Color Analyzer
3. Service Remote control unit

How to make the Service remote control unit:

Cut “A” portion of the attached remote control unit as shown in Fig. 1.

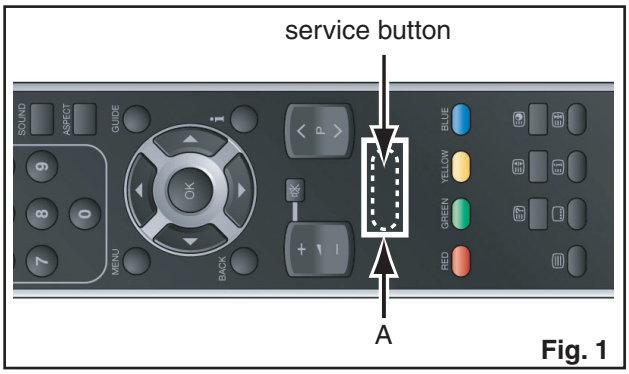


Fig. 1

How to set up the service mode:

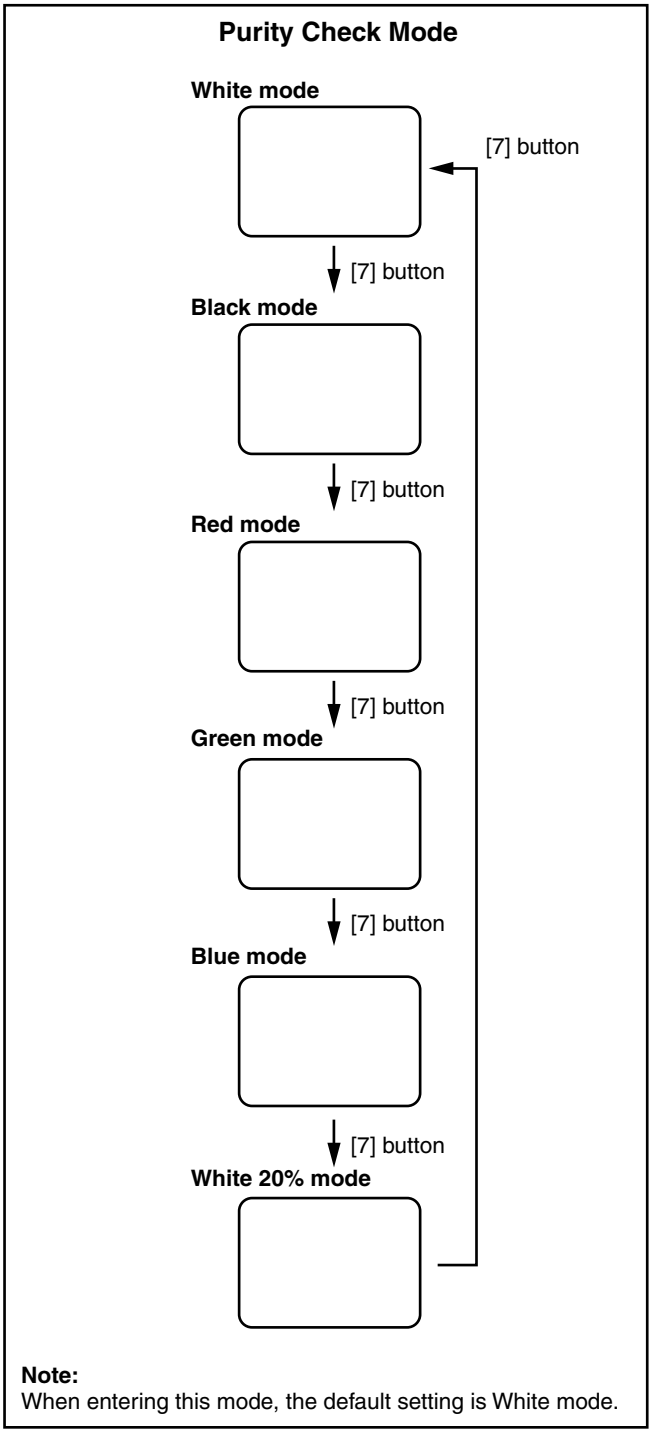
Service mode:

1. Use the service remote control unit.
2. Turn the power on.
3. Press the service button on the service remote control unit as shown in Fig.1.

1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

1. Enter the Service mode.
2. Each time pressing [7] button on the service remote control unit, the display changes as follows.



3. To cancel or to exit from the Purity Check Mode, press [BACK] button.

2. Auto Calibration [Component]

Purpose: To bring the color adjustment of each component into standard alignment.

Symptom of Misadjustment: If this adjustment is incorrect, component signals do not reproduce the corresponding color.

1. Input 720P 100% Color Bar signal.
2. Enter the service mode.
3. To enter the Auto Calibration adjustment mode, press [6] button on the service remote control unit.
4. To start auto adjustment, press [P ∧] button on the service remote control unit.
   - In the auto adjustment mode, “Calibration Check” appears on the screen.
   - Upon completion, “OK” appears on the screen.
5. To cancel or to exit from the Auto Calibration [Component], press [BACK] button.

3. Auto Calibration [PC]

Purpose: To bring the color adjustment of PC into standard alignment.

Symptom of Misadjustment: If this adjustment is incorrect, PC signals do not reproduce the corresponding color.

1. Input SVGA 100% White signal.
2. Enter the service mode.
3. To enter the Auto Calibration adjustment mode, press [5] button on the service remote control unit.
4. To start auto adjustment, press [P ∧] button on the service remote control unit.
   - In the auto adjustment mode, “Calibration Check” appears on the screen.
   - Upon completion, “OK” appears on the screen.
5. To cancel or to exit from the Auto Calibration [PC], press [BACK] button.

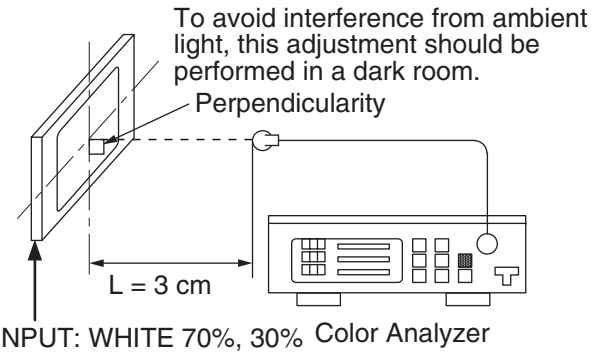
The White Balance Adjustment should be performed when replacing the LCD Panel or Digital CBA.

4. White Balance Adjustment [Video/Component/PC]

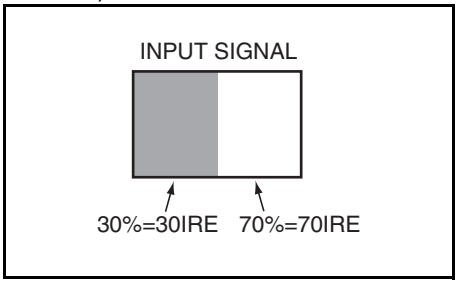
Purpose: To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[P ∧ / ∨] buttons	**[VIDEO]** C/D	White Raster (APL 70%) or (APL 30%)
M. EQ.		**Spec.**	
Pattern Generator, Color analyzer		x= 0.286 ± 0.005 y= 0.295 ± 0.005	
Figure			


To avoid interference from ambient light, this adjustment should be performed in a dark room.
Perpendicularity
L = 3 cm
INPUT: WHITE 70%, 30%
Color Analyzer

1. Operate the unit for more than 20 minutes.
2. [VIDEO input]
   Input the White Raster (70%=70IRE, 30%=30IRE).
   [Component input]
   Input the 720P White Raster (70%=70IRE, 30%=30IRE).
   [PC input]
   Input the SVGA White Raster (70%=70IRE, 30%=30IRE).



3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. Enter the Service mode. Press [◢ -] button on the service remote control unit and select “C/D” mode.
5. **[CUTOFF]**
   Press [3] button to select “COB” for Blue Cutoff adjustment. Press [1] button to select “COR” for Red Cutoff adjustment.
   [DRIVE]
   Press [6] button to select “DB” for Blue Drive adjustment. Press [4] button to select “DR” for Red Drive adjustment.
6. In each color mode, press [P ∧ / ∨] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 9200°K (x= 0.286 / y= 0.295 ±0.005).
8. Change the video signal input in step 2 and repeat from step 3.
9. To cancel or to exit from the White Balance Adjustment, press [BACK] button.

HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

1. Turn the power on.
2. To enter the service mode, press the service button on the service remote control unit. (Refer to page 5-1.)
   - To cancel the service mode, Press [⏻] button on the remote control unit.
3. Press [i] button on the service remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is complete.

FIRMWARE RENEWAL MODE

Equipment Required

a. USB storage device
b. Remote Control Unit

Firmware Update Procedure

[Preparation]

1. Prepare a blank USB storage device.
2. Copy “pkg” file (example: funai_LC7_WHD_ ZF536232PB10S-001.pkg) to USB storage device.
3. Rename the “pkg” file’s name to “upgrade.pkg”.

[Update procedure]

1. Plug in the AC power cord of TV set.
2. Press [⏻] button on the remote control unit to turn off (standby).
3. Check “STAND BY” indicator (Red LED) lighting.
4. Insert USB storage device with “upgrade.pkg” file to TV set.
5. Press [⏻] button to turn on.
6. After approximately 70 seconds, the following will appear on the screen.

(Example)

7. Select “Yes” and press the [OK] button to update.

   Note: Do not turn off the TV set and do not remove the USB storage device while this procedure.
8. The update will start and the following will appear on the screen.

(Example)

9. When the firmware update is completed, the following will appear on the screen.

(Example)

Updating Wizard
The firmware is successfully updated to version IDTV0801_001035_40_001_5.
Please restart the TV set to activate the new firmware.
Power

10. Turn the power off.
11. Remove the USB storage device from the USB port.
12. Turn the power on.

TROUBLESHOOTING

FLOW CHART NO.1

The power cannot be turned on.

↓

Is the fuse (F601) normal? — No → See FLOW CHART No.2 <The fuse blows out.>

↓ Yes

Is normal state restored when once unplugged power cord is plugged again several seconds? — No → Check if there is any leak or short-circuiting on the primary circuit component, and service it if defective. (IC607, IC621, Q621, Q622, Q623, D609, D610, D611, D612, T601, T602)

↓ Yes

Is approximately 15V voltage supplied to the cathode of D504? — No → (same as above)

↓ Yes

Check each rectifying circuit of the secondary circuit and service it if defective.

FLOW CHART NO.2

The fuse blows out.

↓

Check the presence that the primary component is leaking or shorted and service it if defective.

Check the presence that the rectifying diode or circuit is shorted in each rectifying circuit of secondary side, and service it if defective.

↓

After servicing, replace the fuse (F601).

FLOW CHART NO.3

When the output voltage fluctuates.

↓

Does the photocoupler circuit on the secondary side operate normally? — No → Check IC607, Q512, Q513, D505, D530 and their periphery, and service it if defective.

↓ Yes

Check IC607, IC621, D625, D628, D630, D631, D634, D635, D636, D638 and their periphery, and service it if defective.

FLOW CHART NO.4

When buzz sound can be heard in the vicinity of power circuit.

↓

Check if there is any short-circuit on the rectifying diode and the circuit in each rectifying circuit of the secondary side, and service it if defective. (D504, D511, D514, D523, D524, D525, D539, D540, Q501, Q510, Q517, Q518, Q521)

FLOW CHART NO.5

LCD+12V is not output.

↓

Is approximately 15V voltage supplied to the collector of Q501?

No → Check D504, D505, C503 and their periphery circuit, and service it defective.

↓ Yes

Is approximately 13V voltage supplied to the base of Q501?

No → Check Q504, Q505, D501, P-ON-H1 line and their periphery circuit, and service it defective.

↓ Yes

Replace Q501.

FLOW CHART NO.6

AL+3.3V is not output.

↓

Is approximately 6V voltage supplied to the collector of Q521?

No → Check D525, D527, D528, C516 and their periphery circuit, and service it if defective.

↓ Yes

Is approximately 4V voltage supplied to the base of Q521?

No → Check D552 and their periphery circuit, and service it if defective.

↓ Yes

Replace Q521.

FLOW CHART NO.7

P-ON+5V is not output.

↓

Is approximately 6V voltage supplied to the collector of Q518?

No → Check D525, C516 and their periphery circuit, and service it if defective.

↓ Yes

Is approximately 5V voltage supplied to the base of Q518?

No → Check Q508, Q520, D543, P-ON-H2 line and their periphery circuit, and service it if defective.

↓ Yes

Replace Q518.

FLOW CHART NO.8

LCD+24V is not output.

↓

Check IC1801, IC1831, IC1832, Q1801, Q1802, T1831 and their periphery circuit, and service it if defective.

FLOW CHART NO.9

AL+5V is not output.

Is approximately 5V voltage supplied to the cathode of D523?

No → Check D523, D524, C515 and their periphery circuit, and service it if defective.

Yes

Check if there is any leak or short-circuit on the loaded circuit, and service it if defective.

FLOW CHART NO.10

P-ON+3.3V is not output.

Is approximately 5V voltage supplied to the collector of Q510?

No → Check D523, D524, C515 and their periphery circuit, and service it if defective.

Yes

Is approximately 3.4V voltage supplied to the base of Q510?

No → Check Q508, Q511, D526, P-ON-H2 line and their periphery circuit, and service it if defective.

Yes

Replace Q510.

FLOW CHART NO.11

P-ON+9V is not output.

Is approximately 13V voltage supplied to the collector of Q517?

No → Check D539, C522 and their periphery circuit, and service it if defective.

Yes

Is approximately 10V voltage supplied to the base of Q517?

No → Check Q508, Q520, D541, D542, P-ON-H2 line and their periphery circuit, and service it if defective.

Yes

Replace Q517.

FLOW CHART NO.12

The key operation is not functioning.

Are the contact point and installation state of the key switches (SW101B, SW103B-SW107B) normal?

No → Re-install the switches (SW101B, SW103B-SW107B) correctly or replace the poor switch.

Yes

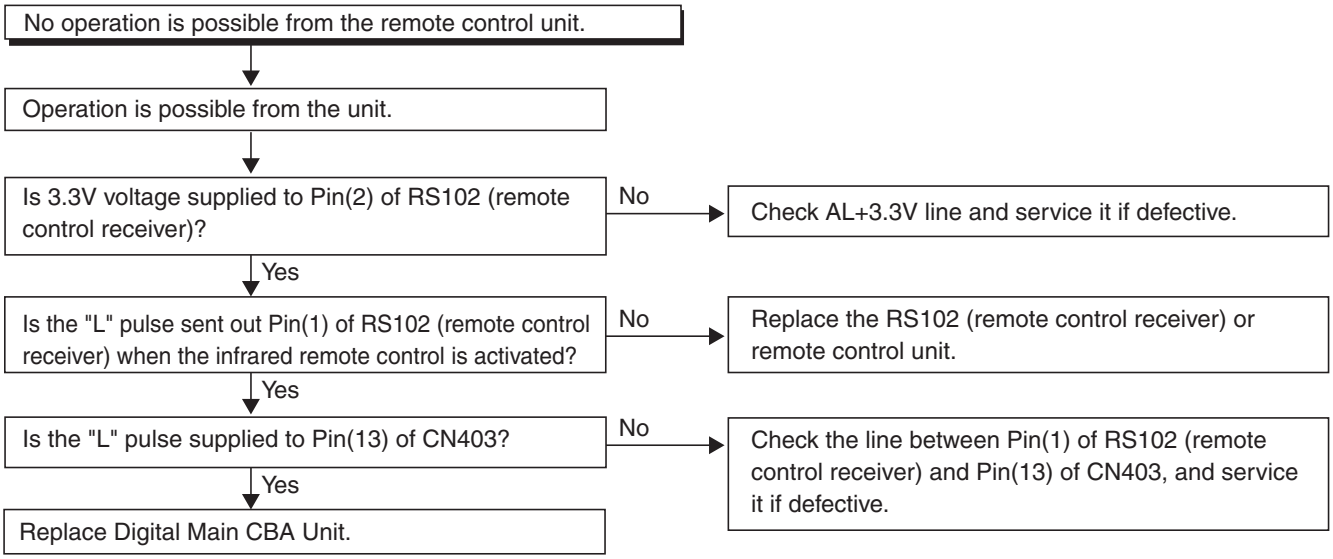
When pressing each switches (SW101B, SW103B-SW107B) do the voltage of Pin(11) on CN403 increase?

No → Check the switches (SW101B, SW103B-SW107B) and their periphery, and service it if defective.

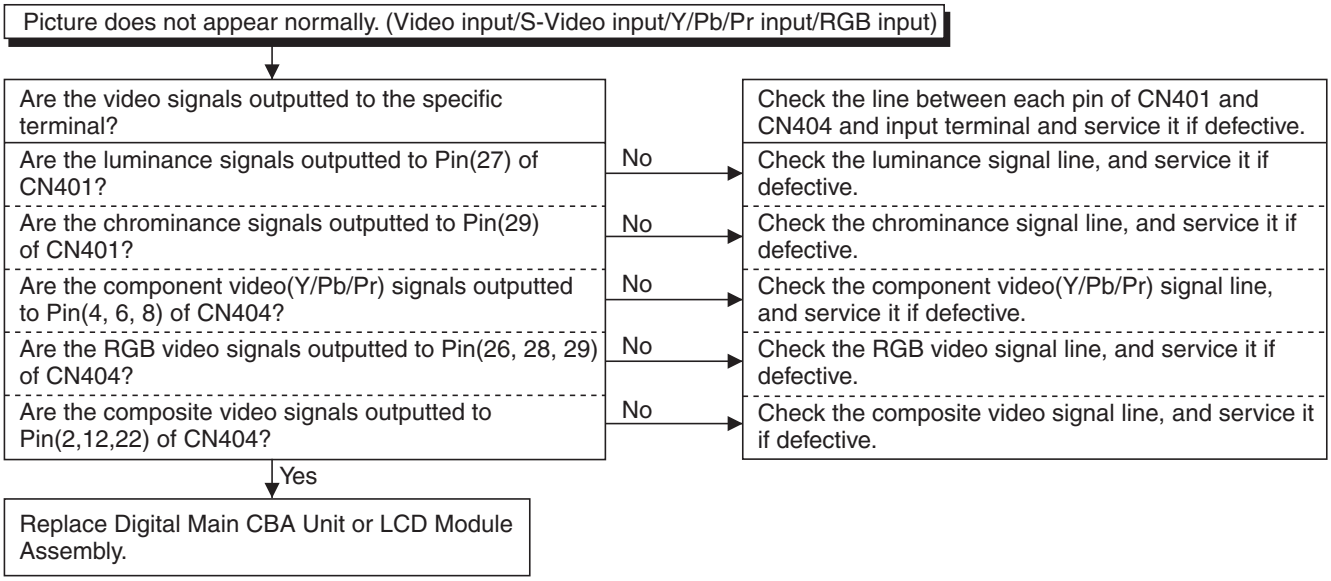
Yes

Replace Digital Main CBA Unit.

FLOW CHART NO.13


No operation is possible from the remote control unit.
Operation is possible from the unit.
Is 3.3V voltage supplied to Pin(2) of RS102 (remote control receiver)?
No
Check AL+3.3V line and service it if defective.
Yes
Is the "L" pulse sent out Pin(1) of RS102 (remote control receiver) when the infrared remote control is activated?
No
Replace the RS102 (remote control receiver) or remote control unit.
Yes
Is the "L" pulse supplied to Pin(13) of CN403?
No
Check the line between Pin(1) of RS102 (remote control receiver) and Pin(13) of CN403, and service it if defective.
Yes
Replace Digital Main CBA Unit.

FLOW CHART NO.14


Picture does not appear normally. (Video input/S-Video input/Y/Pb/Pr input/RGB input)
Are the video signals outputted to the specific terminal?
Check the line between each pin of CN401 and CN404 and input terminal and service it if defective.
Are the luminance signals outputted to Pin(27) of CN401?
No
Check the luminance signal line, and service it if defective.
Are the chrominance signals outputted to Pin(29) of CN401?
No
Check the chrominance signal line, and service it if defective.
Are the component video(Y/Pb/Pr) signals outputted to Pin(4, 6, 8) of CN404?
No
Check the component video(Y/Pb/Pr) signal line, and service it if defective.
Are the RGB video signals outputted to Pin(26, 28, 29) of CN404?
No
Check the RGB video signal line, and service it if defective.
Are the composite video signals outputted to Pin(2,12,22) of CN404?
No
Check the composite video signal line, and service it if defective.
Yes
Replace Digital Main CBA Unit or LCD Module Assembly.

FLOW CHART NO.15

Picture does not appear normally. (Tuner input (Digital))

Are the DIF signals outputted to Pin(16, 18) of CN403?

No → Check the line between Pin(16, 18) of CN403 and Pin(4, 5) of TU1, and TU1(Tuner Unit), and service it if defective.

Yes

Replace Digital Main CBA Unit or LCD Module Assembly.

FLOW CHART NO.16

Audio is not outputted normally. (Tuner input (Digital))

Are the DIF signals outputted to Pin(16,18) of CN403?

No → Check the line between Pin(16, 18) of CN403 and Pin(4, 5) of TU1, and TU1(Tuner Unit), and service it if defective.

Yes

Are the audio(L/R) signals outputted to Pin(8,10) of CN403?

No → Replace Digital Main CBA Unit.

Yes

Are the audio(L/R) signals inputted to the Pin(1,44) of IC803?

No → Check the line between Pin(8,10) of CN403 and Pin(1,44) of IC803, and service it if defective.

Yes

Are the audio(L/R) signals outputted to CN801 and CN802?

No → Check IC803 and the periphery circuit, and service it if defective.

Yes

Check SP801,SP802 and their periphery circuit, and service it if defective.

FLOW CHART NO.17

Audio is not outputted normally. (Audio input terminals)

Are the audio(L/R) signals outputted to the specific terminal?

→ Check the line between each pin of CN401 and input terminal and service it if defective.

Are the audio(L/R) signals outputted to Pin(21,22) of CN401?

No → Check the audio(L/R) signal line, and service it if defective.

Are the component audio(L/R) signals outputted to Pin(18,19) of CN401?

No → Check the component audio(L/R) signal line, and service it if defective.

Are the PC audio(L/R) signals outputted to Pin(24,25) of CN401?

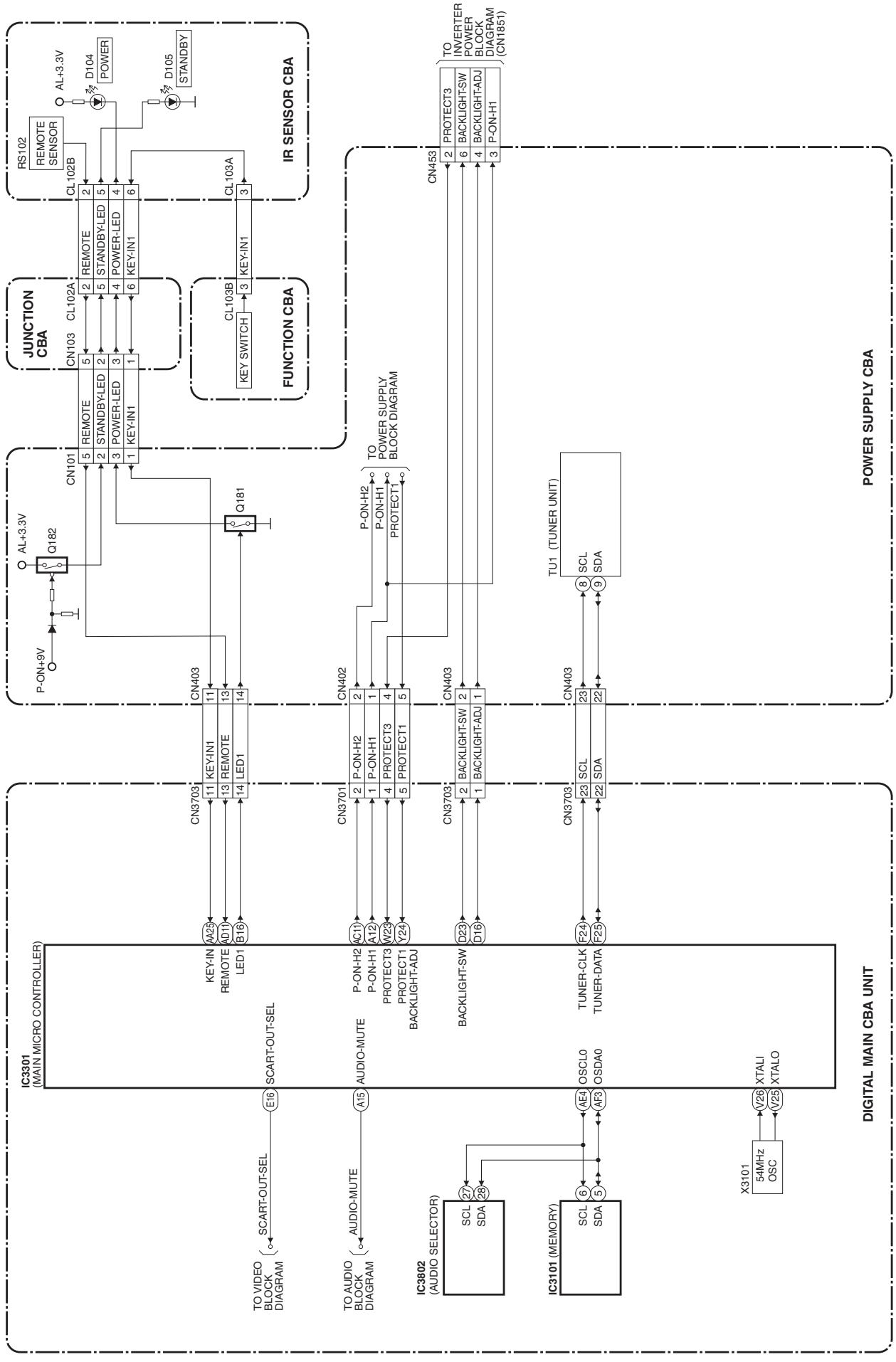
No → Check the PC audio(L/R) signal line, and service it if defective.

Yes

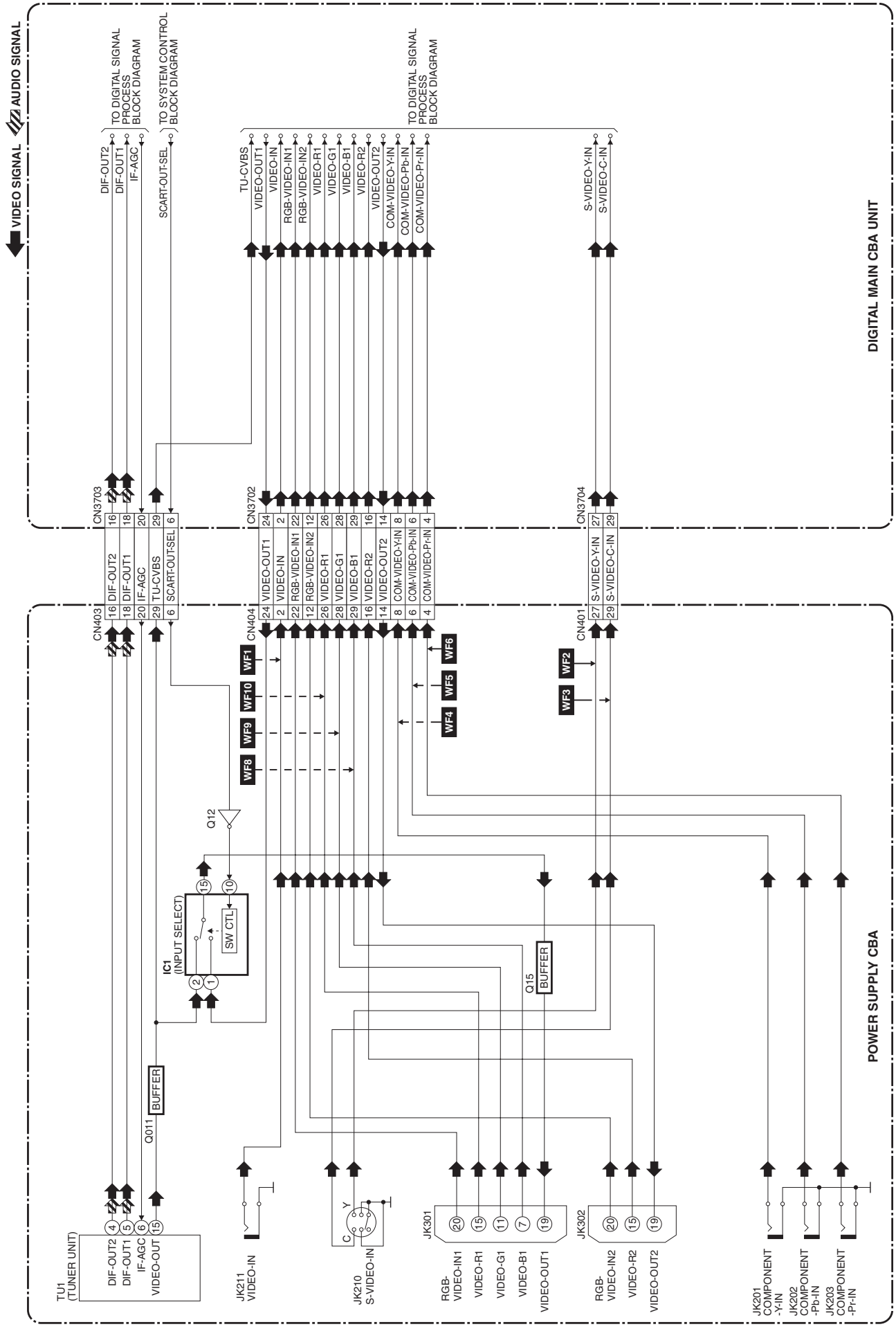
Replace Digital Main CBA Unit.

BLOCK DIAGRAMS

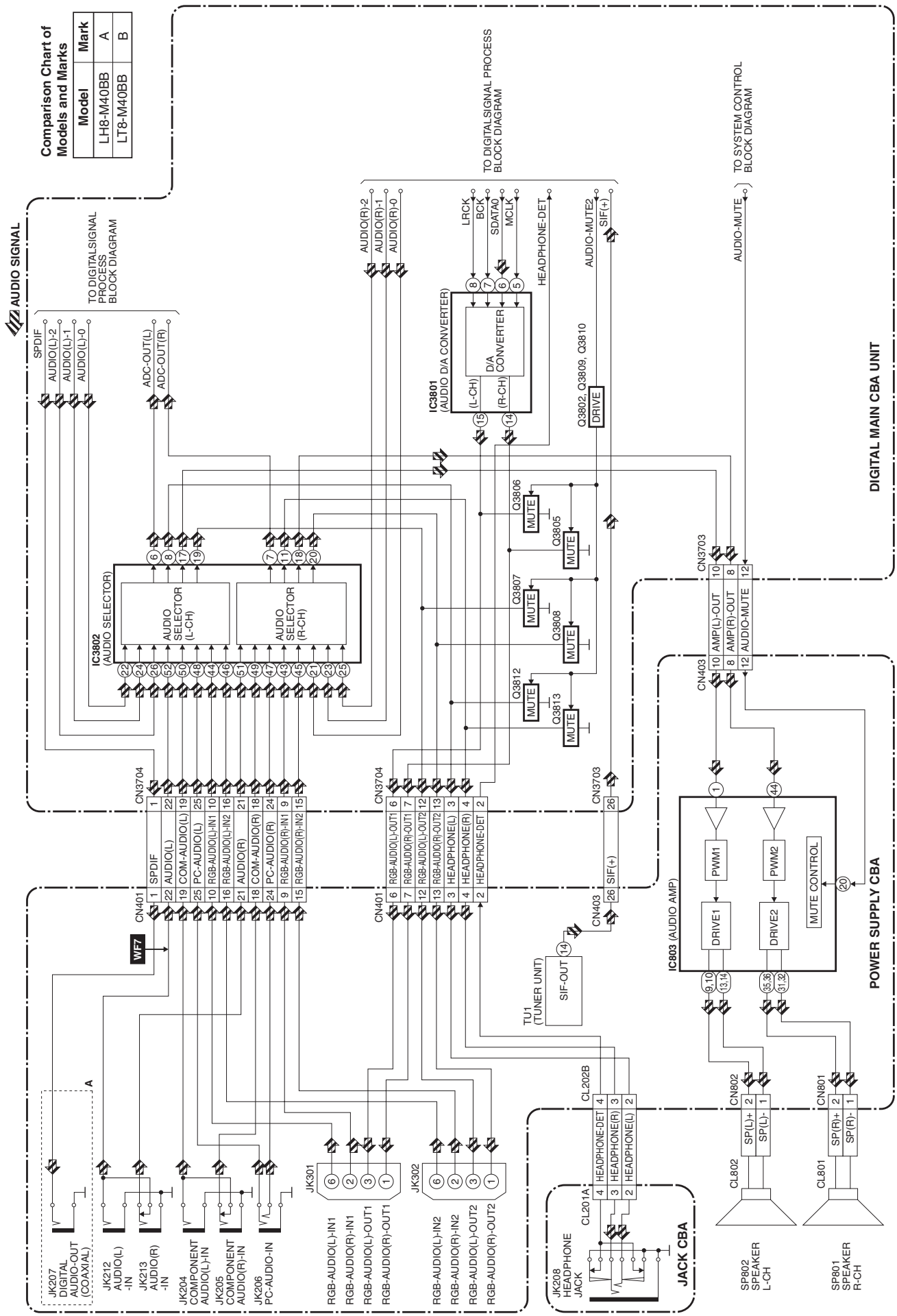
System Control Block Diagram



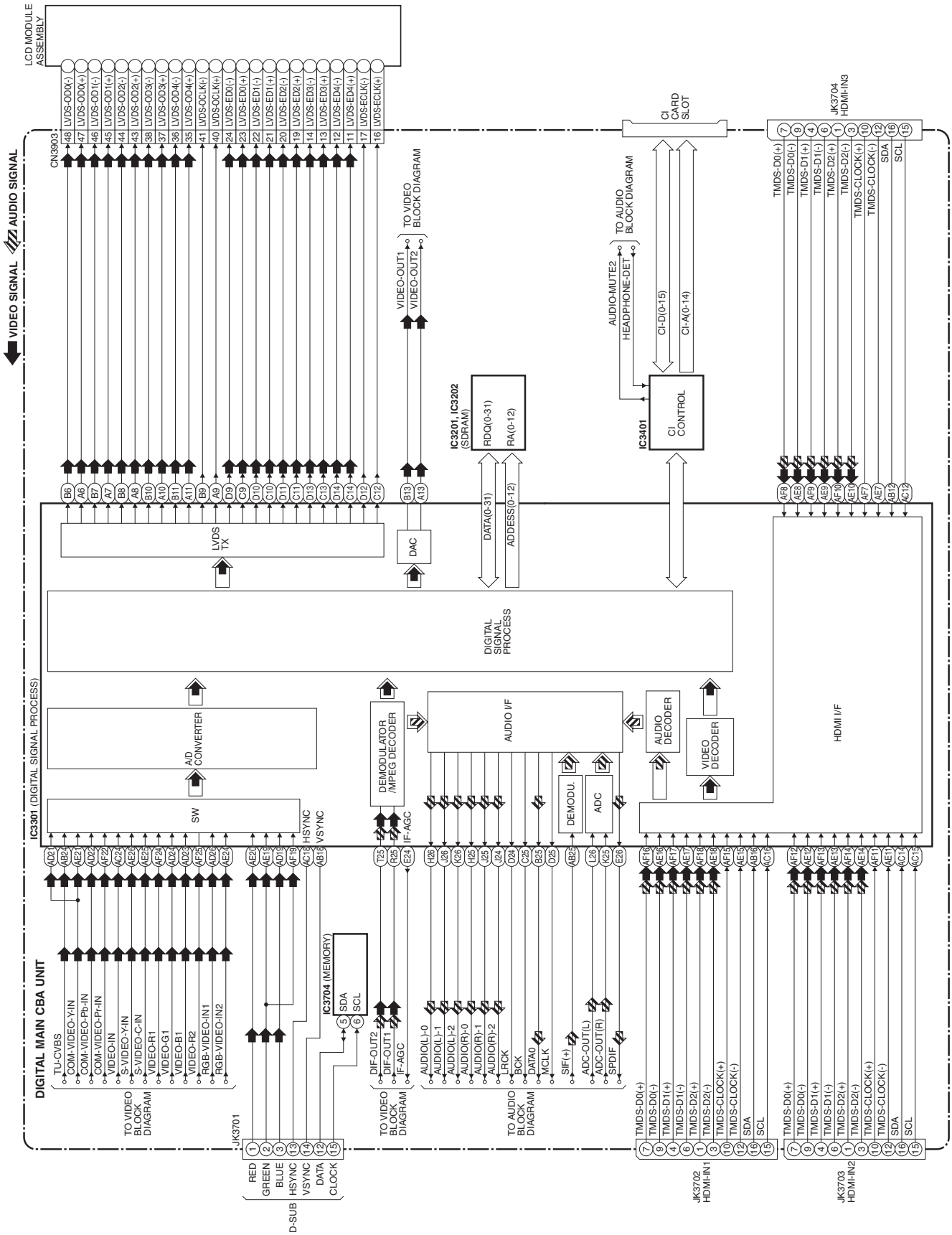
Video Block Diagram



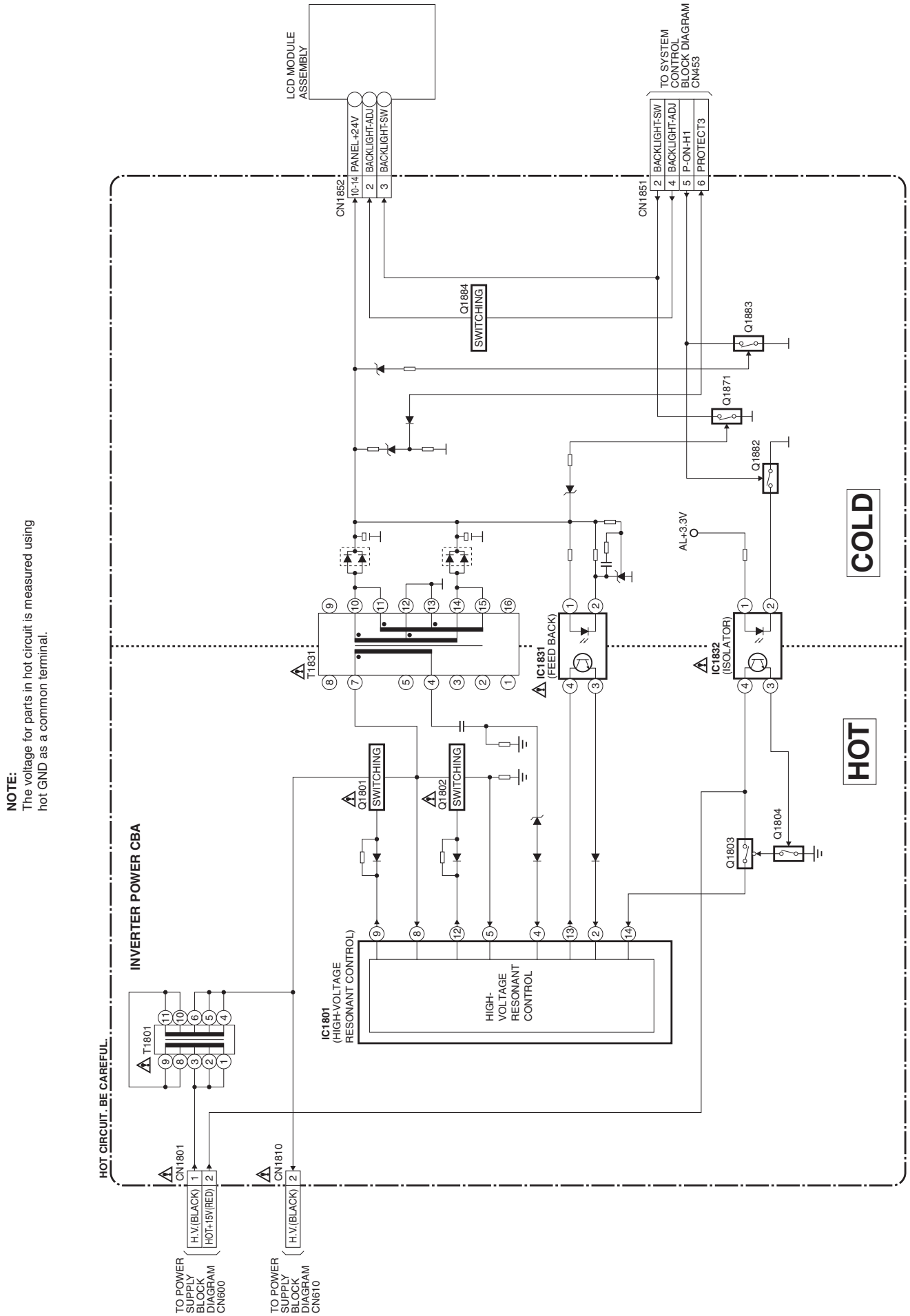
Audio Block Diagram



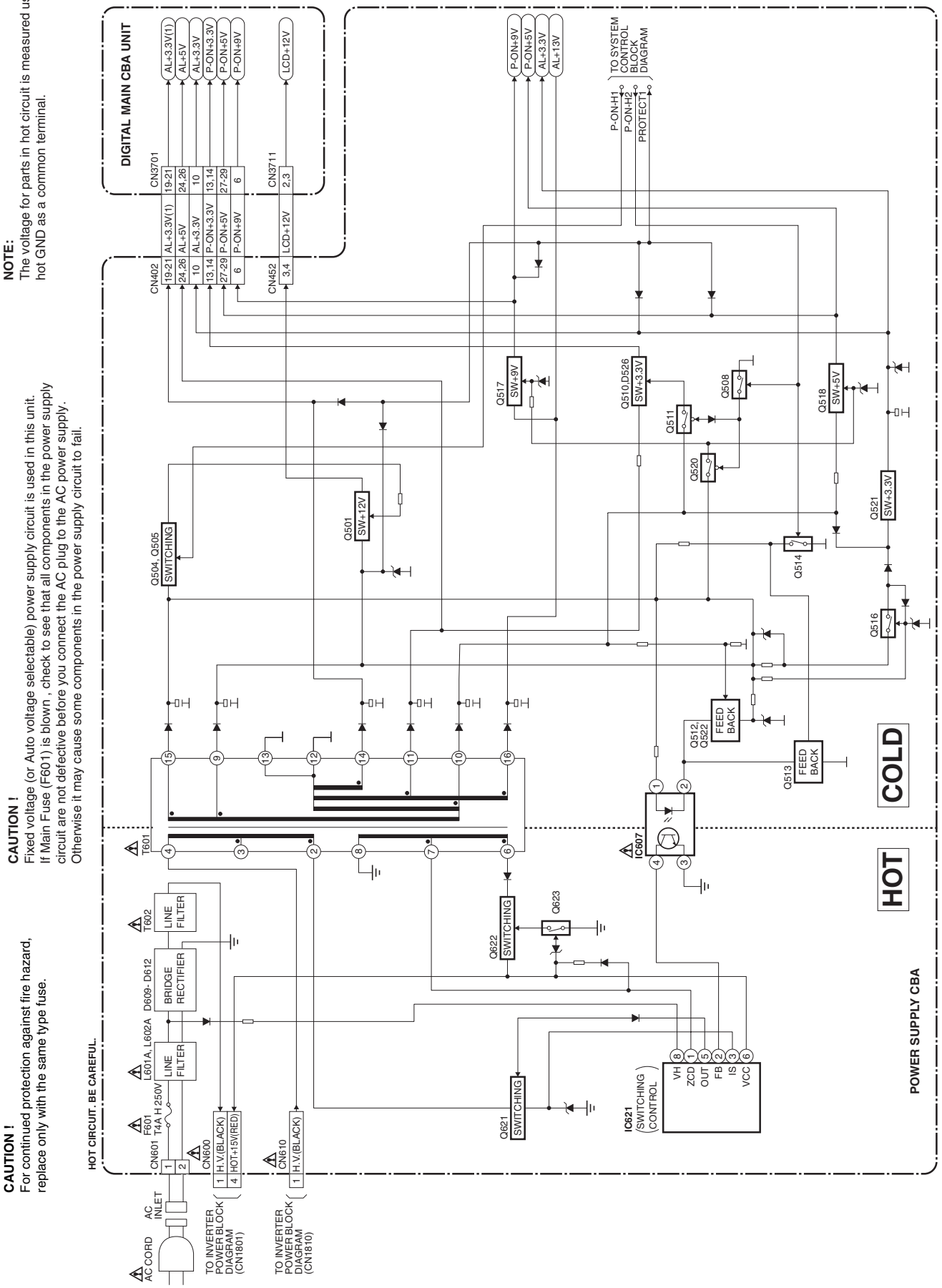
Digital Signal Process Block Diagram



Inverter Power Block Diagram



Power Supply Block Diagram



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "⚠" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in F ($P = 10^{-6}$ F).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

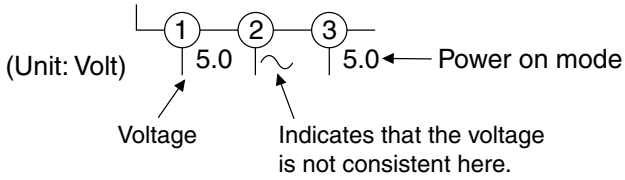
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

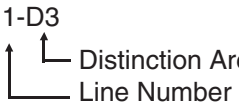
1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:

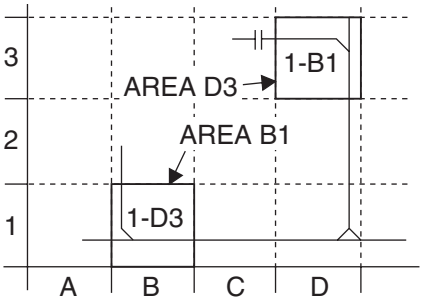


5. How to read converged lines



Examples:

1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

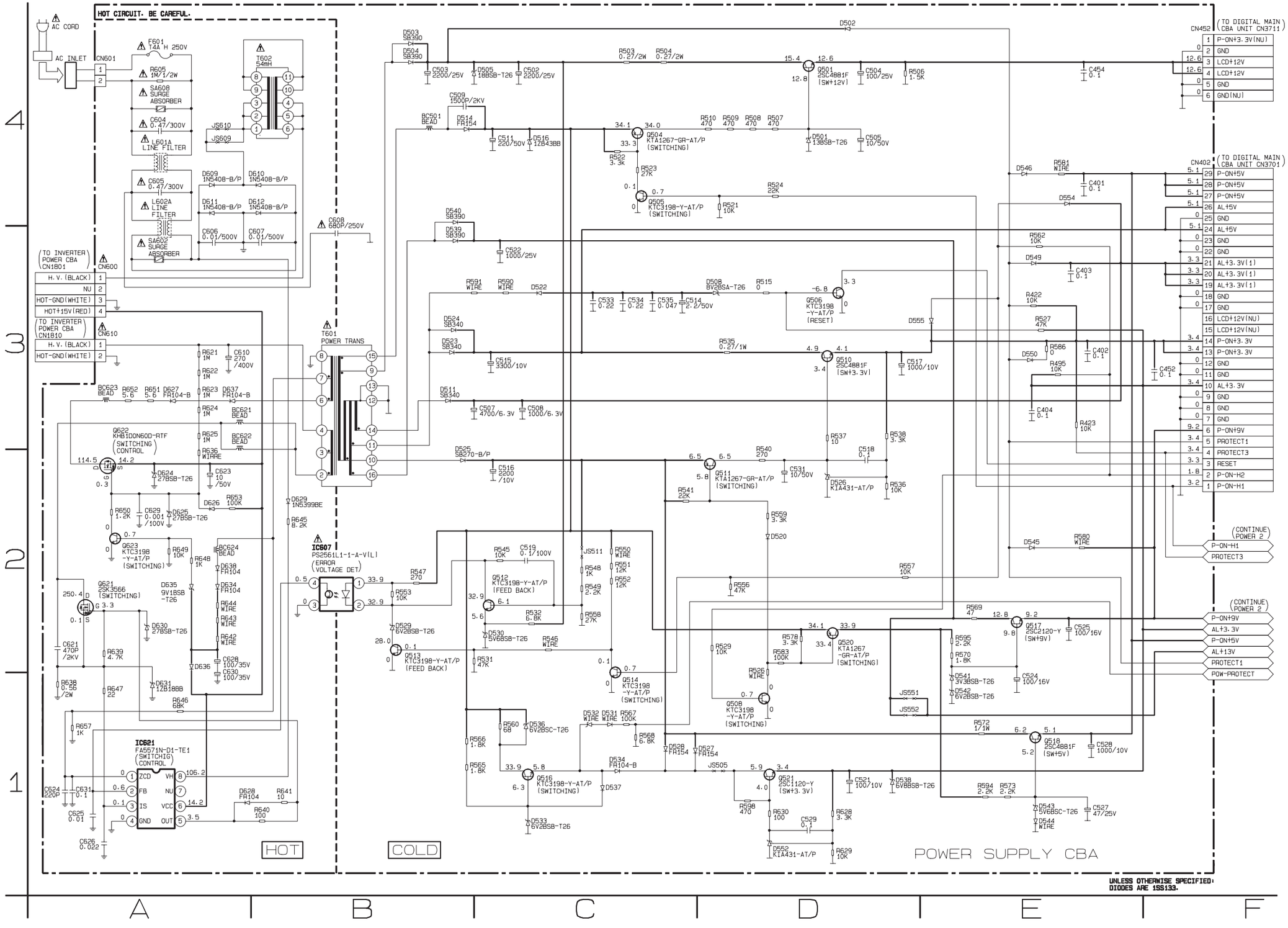
: Used to indicate a test point with a test pin.

Power Supply 1 Schematic Diagram

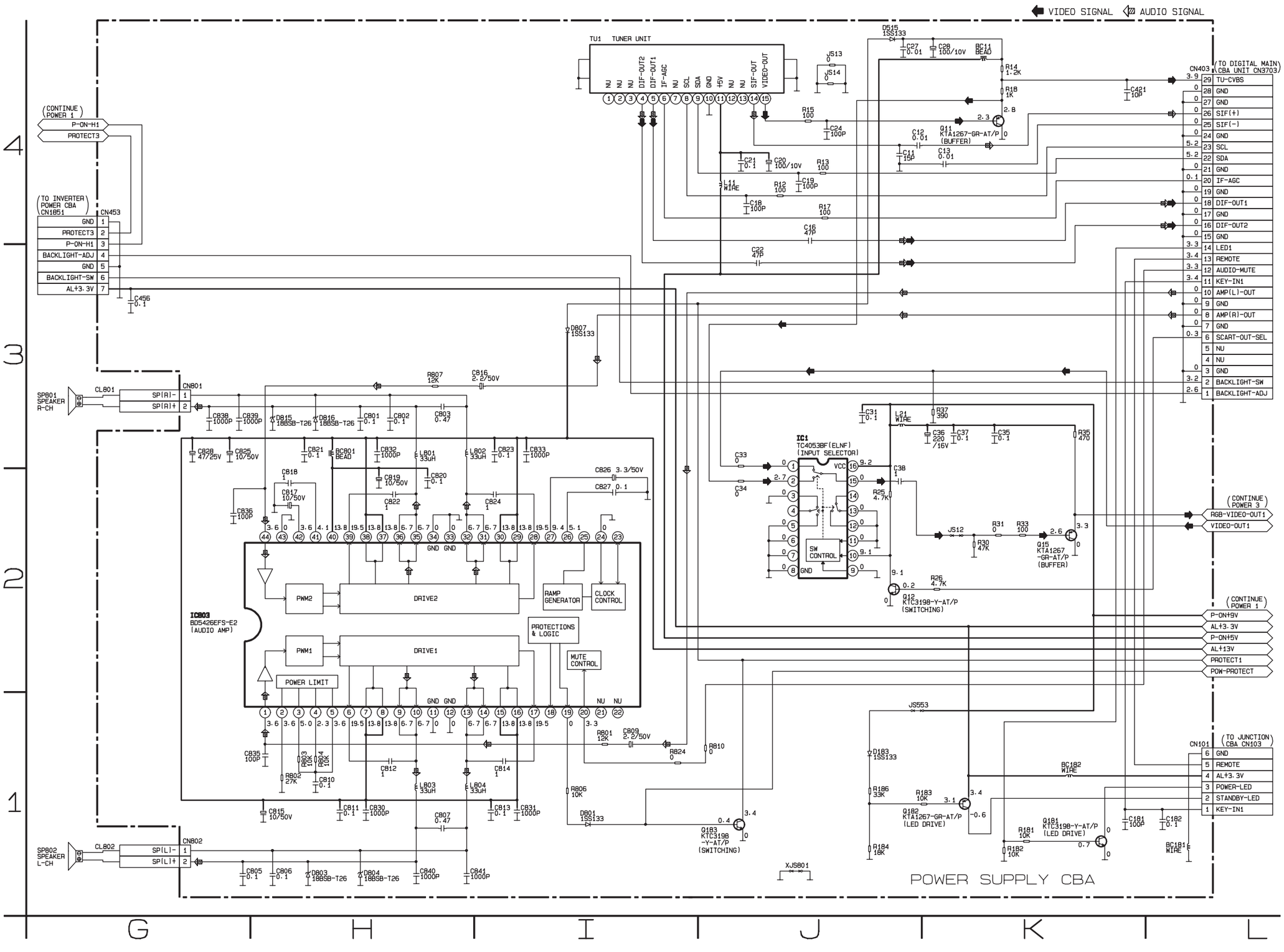
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



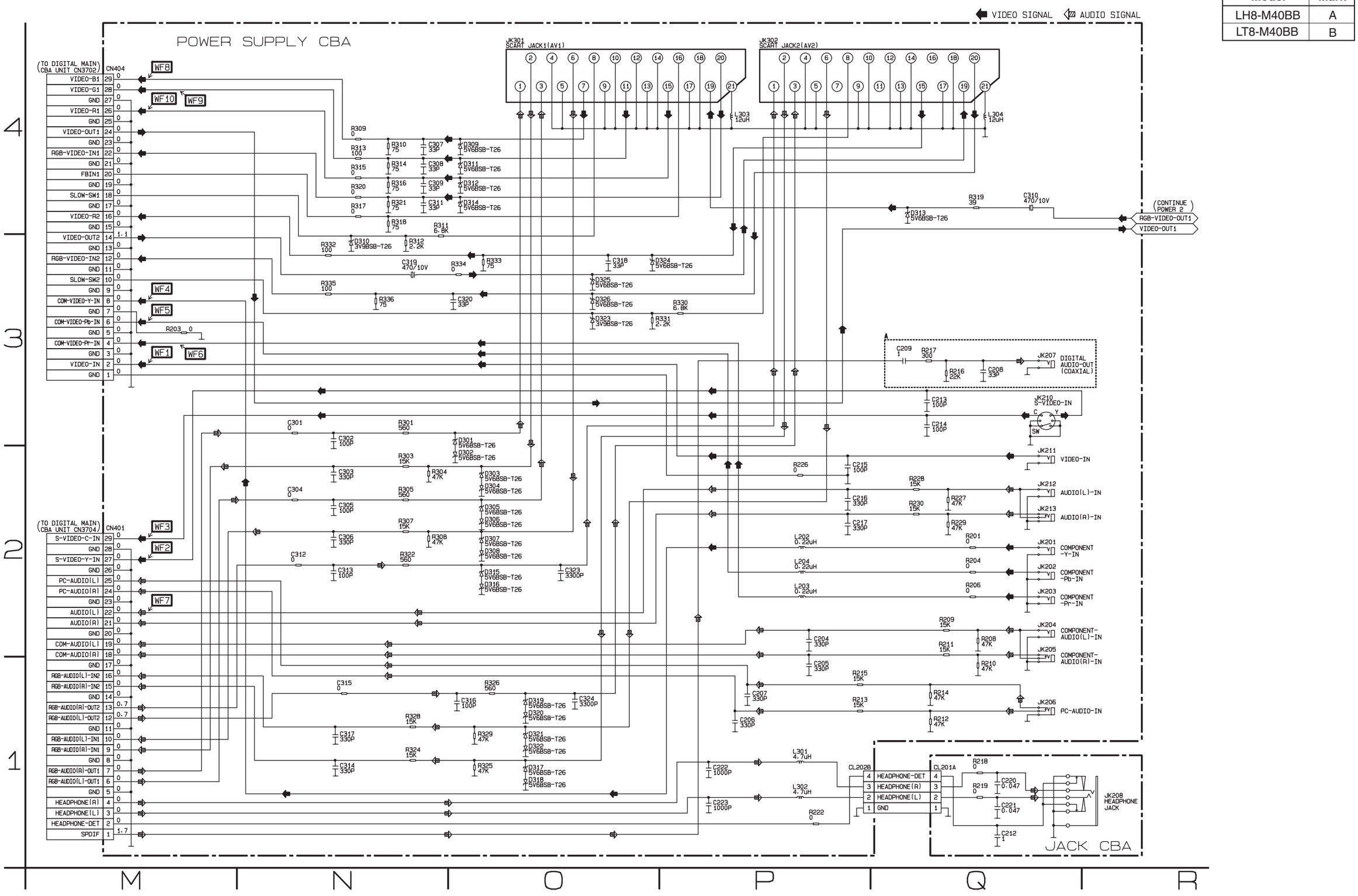
Power Supply 2 Schematic Diagram



Power Supply 3 & Jack Schematic Diagram

Comparison Chart of Models and Marks

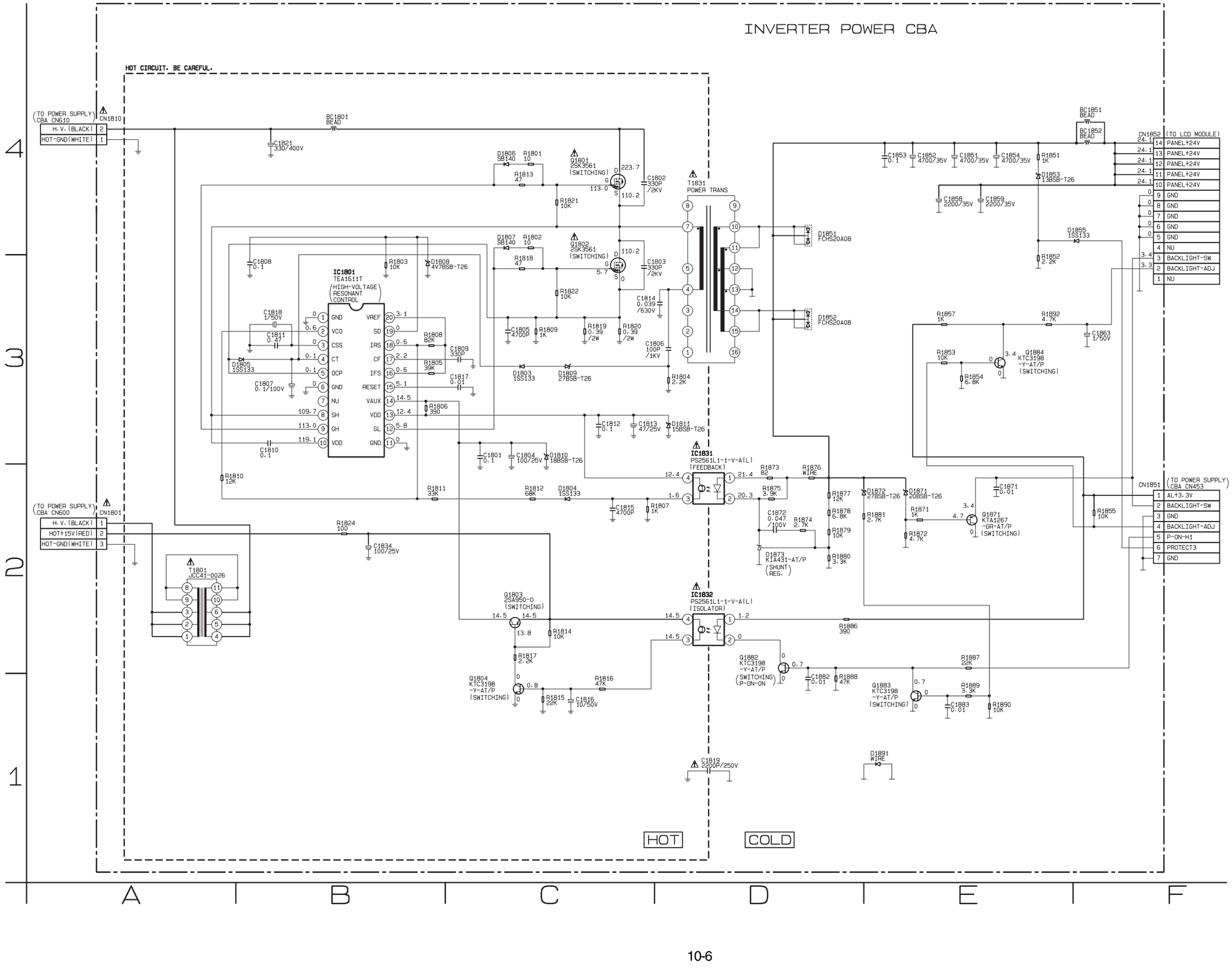
Model	Mark
LH8-M40BB	A
LT8-M40BB	B



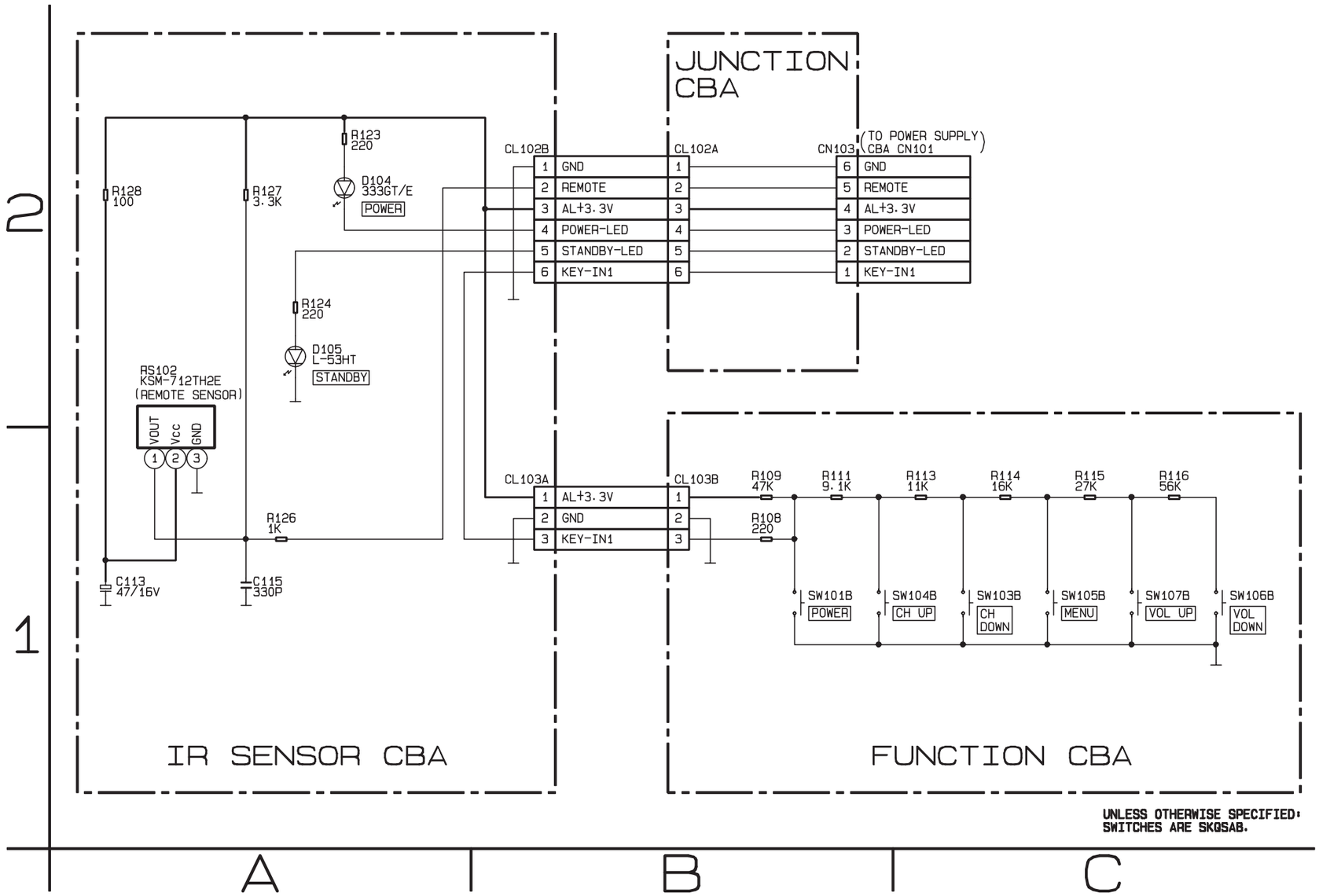
A03P0SCP3

Inverter Power Schematic Diagram

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



IR Sensor, Function & Junction Schematic Diagram

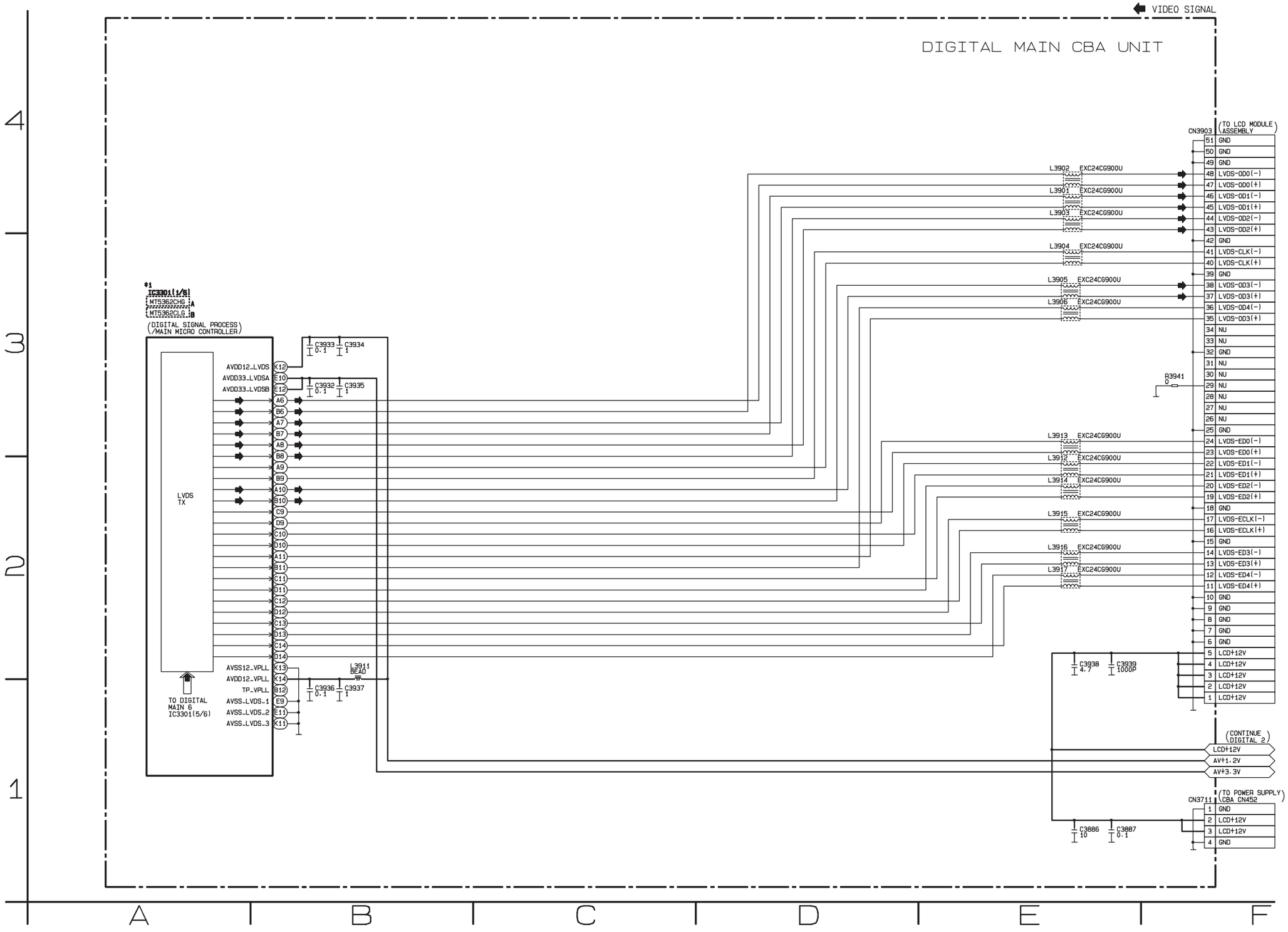


Digital Main 1 Schematic Diagram

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B

∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.

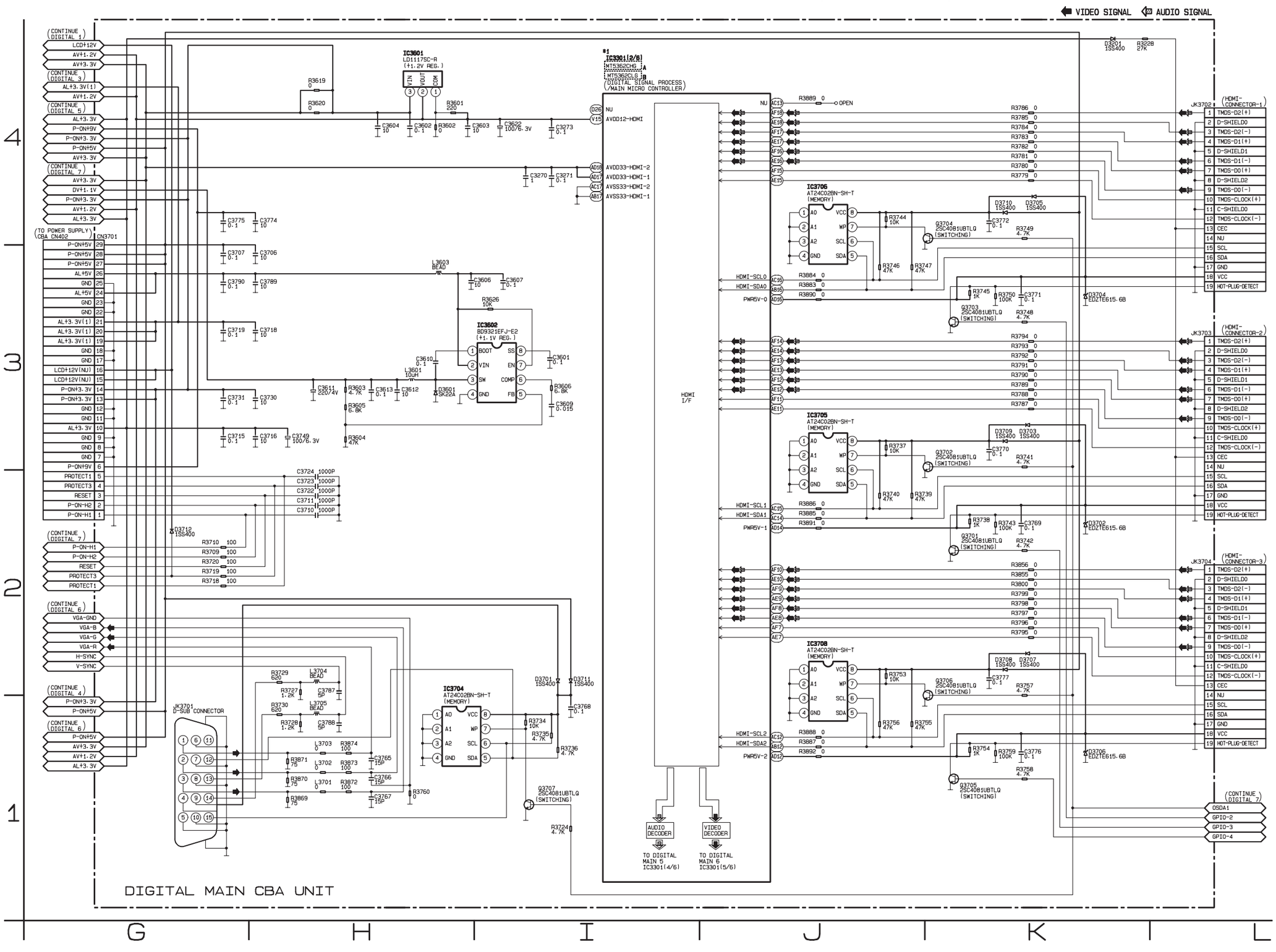


Digital Main 2 Schematic Diagram

∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B

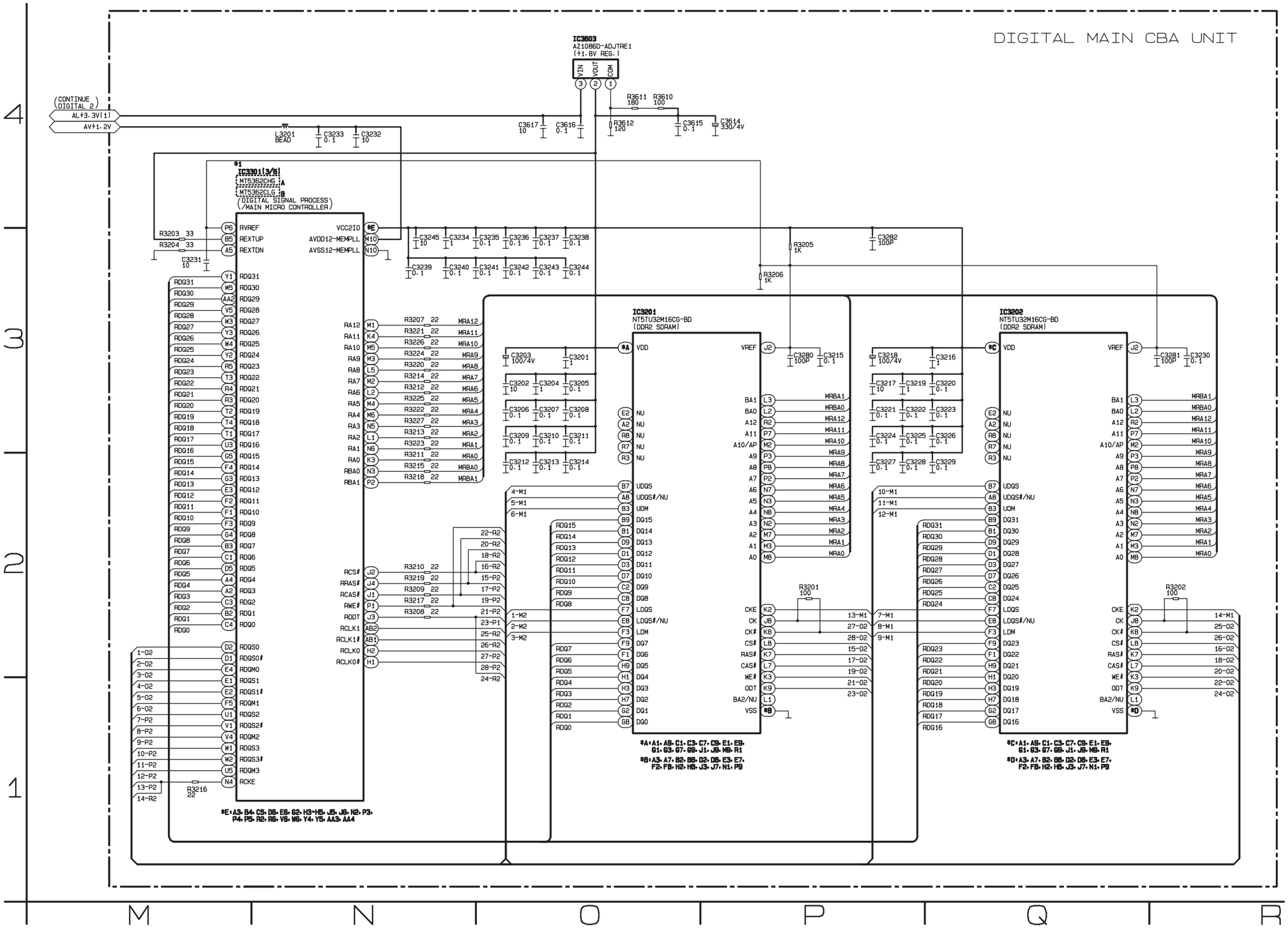


Digital Main 3 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.

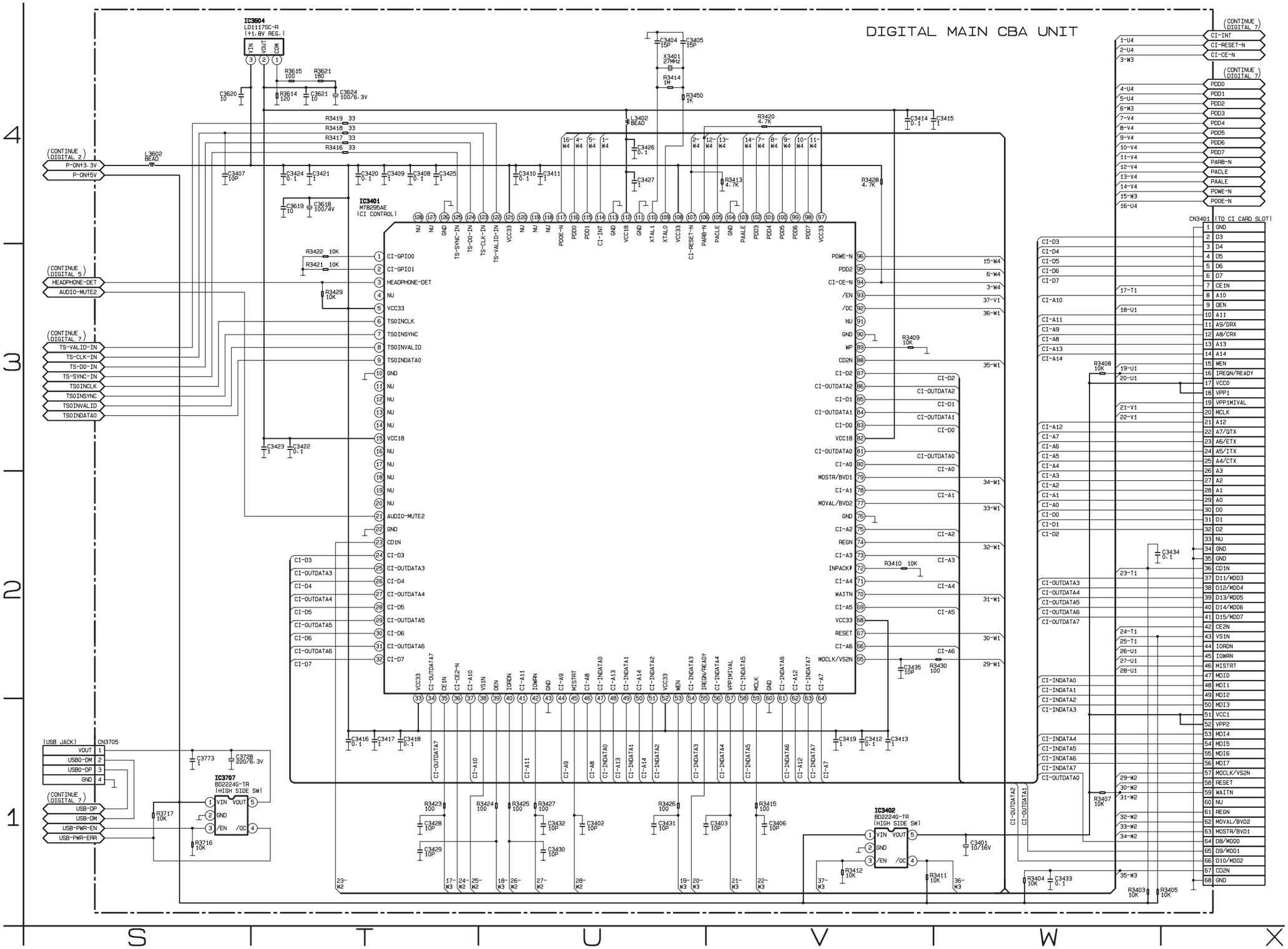
Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B



A03P0SCD3

Digital Main 4 Schematic Diagram

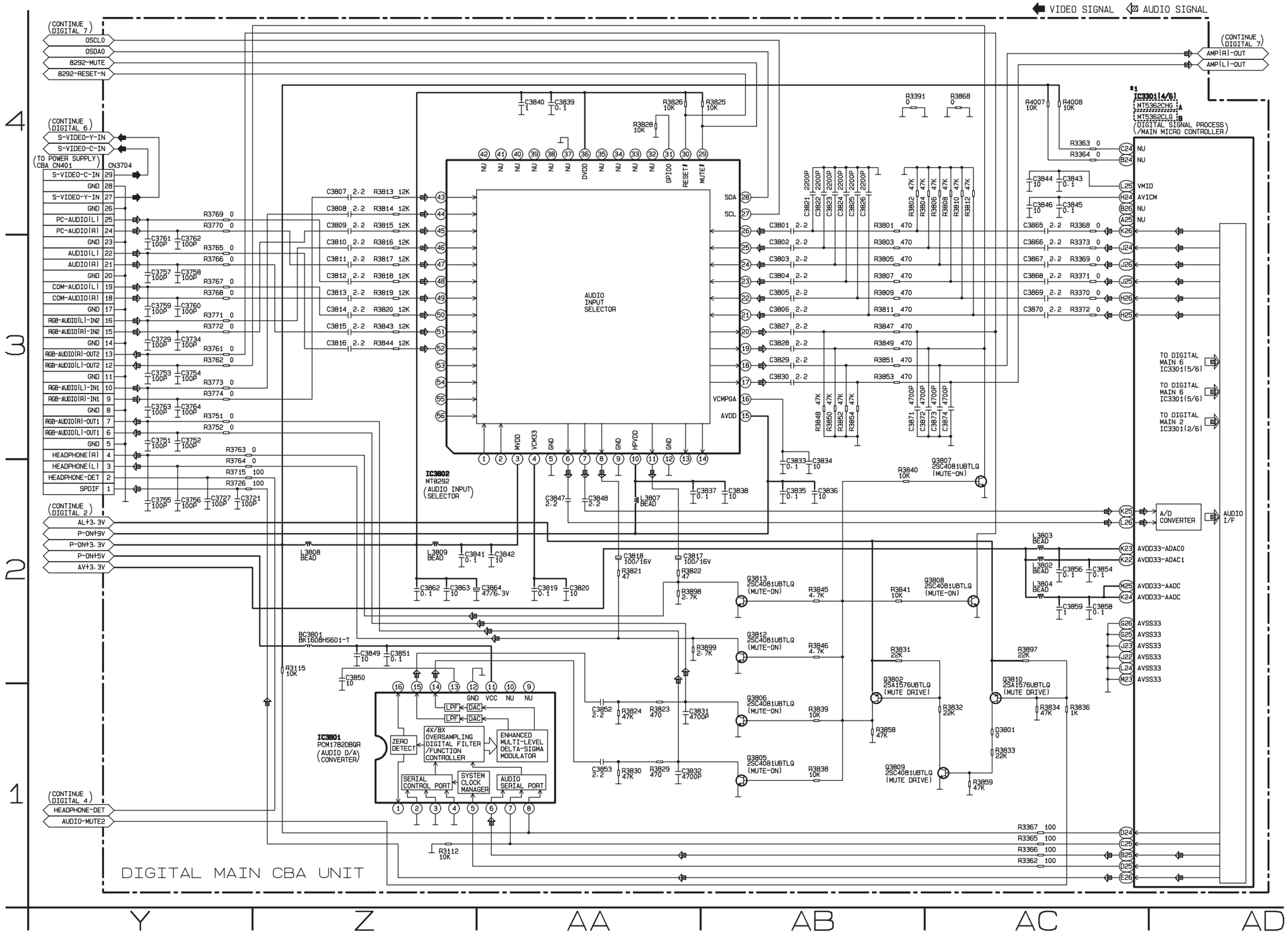


Digital Main 5 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B

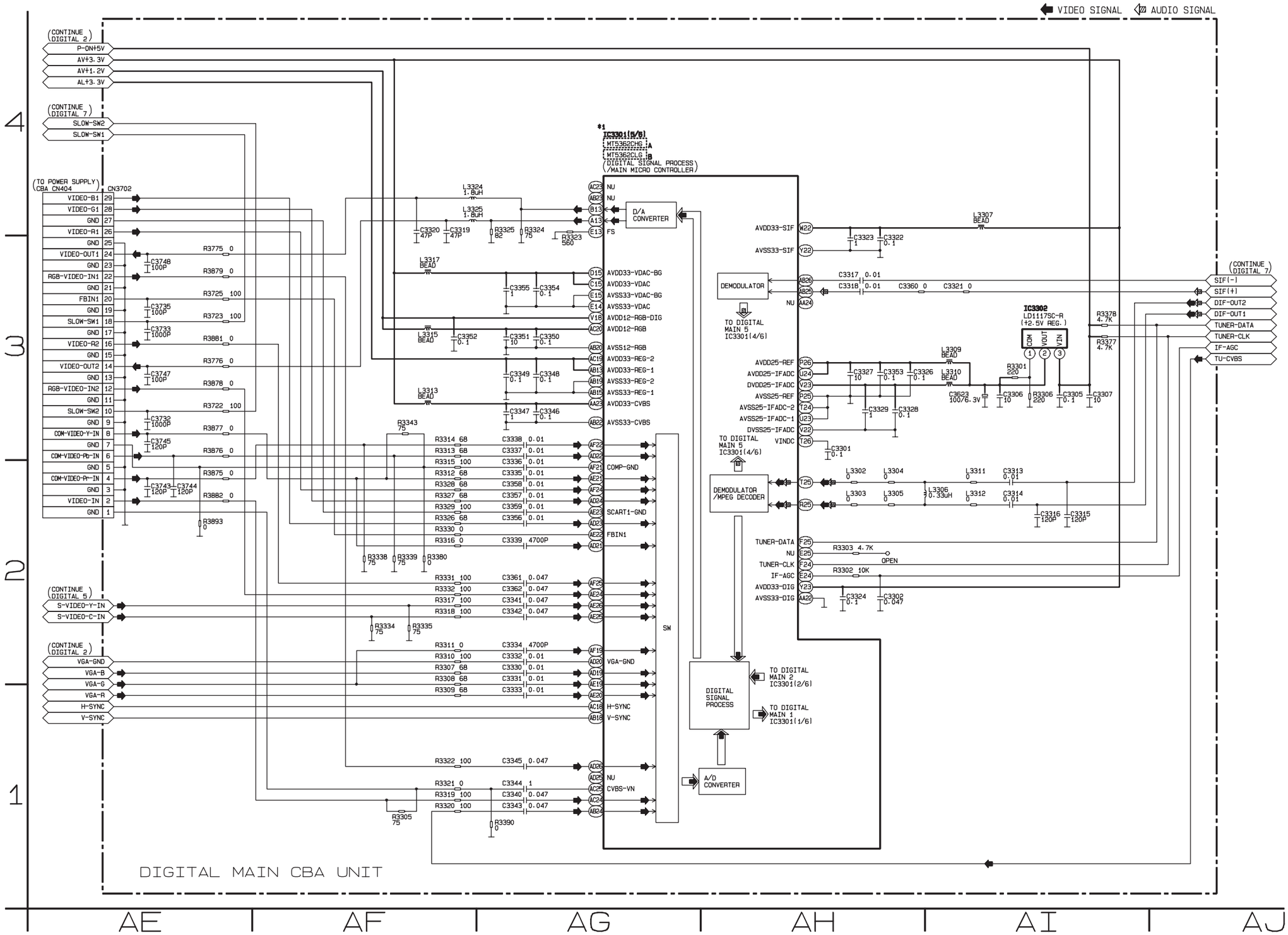


Digital Main 6 Schematic Diagram

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B

∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.

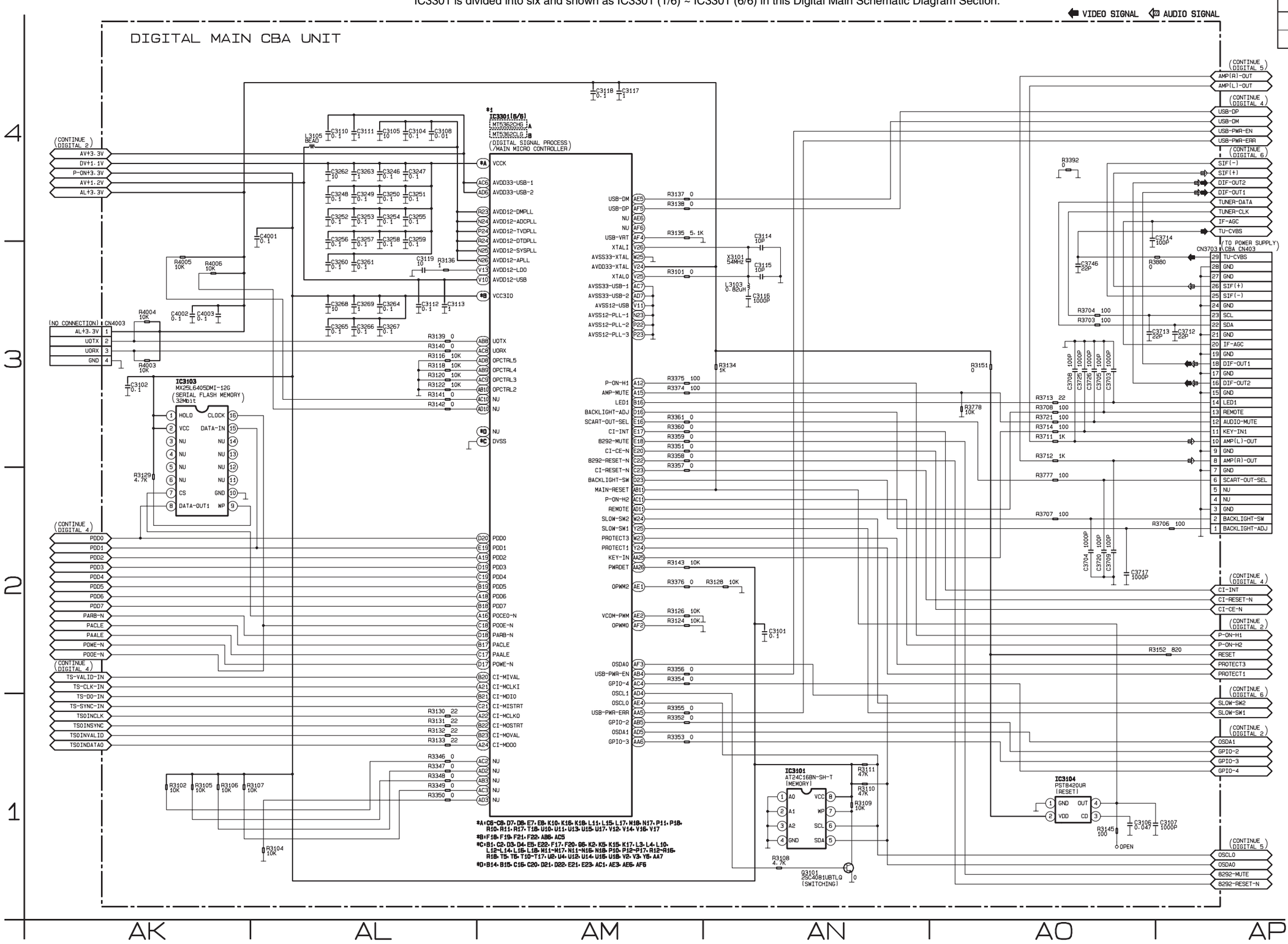


Digital Main 7 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B


DIGITAL MAIN CBA UNIT
VIDEO SIGNAL
AUDIO SIGNAL
IC3301 (1/6)
MT5362CHG : A
MT5362CLG : B
(DIGITAL SIGNAL PROCESS /MAIN MICRO CONTROLLER)
IC3103
MX25L6405DMI-12G
(SERIAL FLASH MEMORY 32Mbit)
IC3101
AT24C16BN-SH-T
(MEMORY)
IC3104
PST6420UR
(RESET)
Q3101
2SC4081UBTLQ
(SWITCHING)
CN3703
(TO POWER SUPPLY CBA CN403)
CN4003
(NO CONNECTION)
X3101
54MHz
L3103
0.82uH
L3105
FERRITE BEAD
∗A: C8, C9, D7, D8, E7, E8, K10, K15, K18, L11, L15, L17, M18, N17, P11, P18, R10, R11, R17, T18, U10, U11, U13, U15, U17, V12, V14, V16, V17
∗B: F18, F19, F21, F22, AB6, AC5
∗C: B1, C2, D3, D4, E5, E22, F17, F20, G6, K2, K5, K15, K17, L3, L4, L10, L12, L14, L16, L18, M11, M17, N11, N16, N18, P10, P12, P17, R12, R16, R18, T5, T6, T10, T17, U2, U4, U12, U14, U15, U18, V2, V3, Y6, AA7
∗D: B14, B15, C16, C20, D21, D22, E21, E23, AC1, AE3, AE6, AF6

Power Supply CBA & Jack CBA Top View

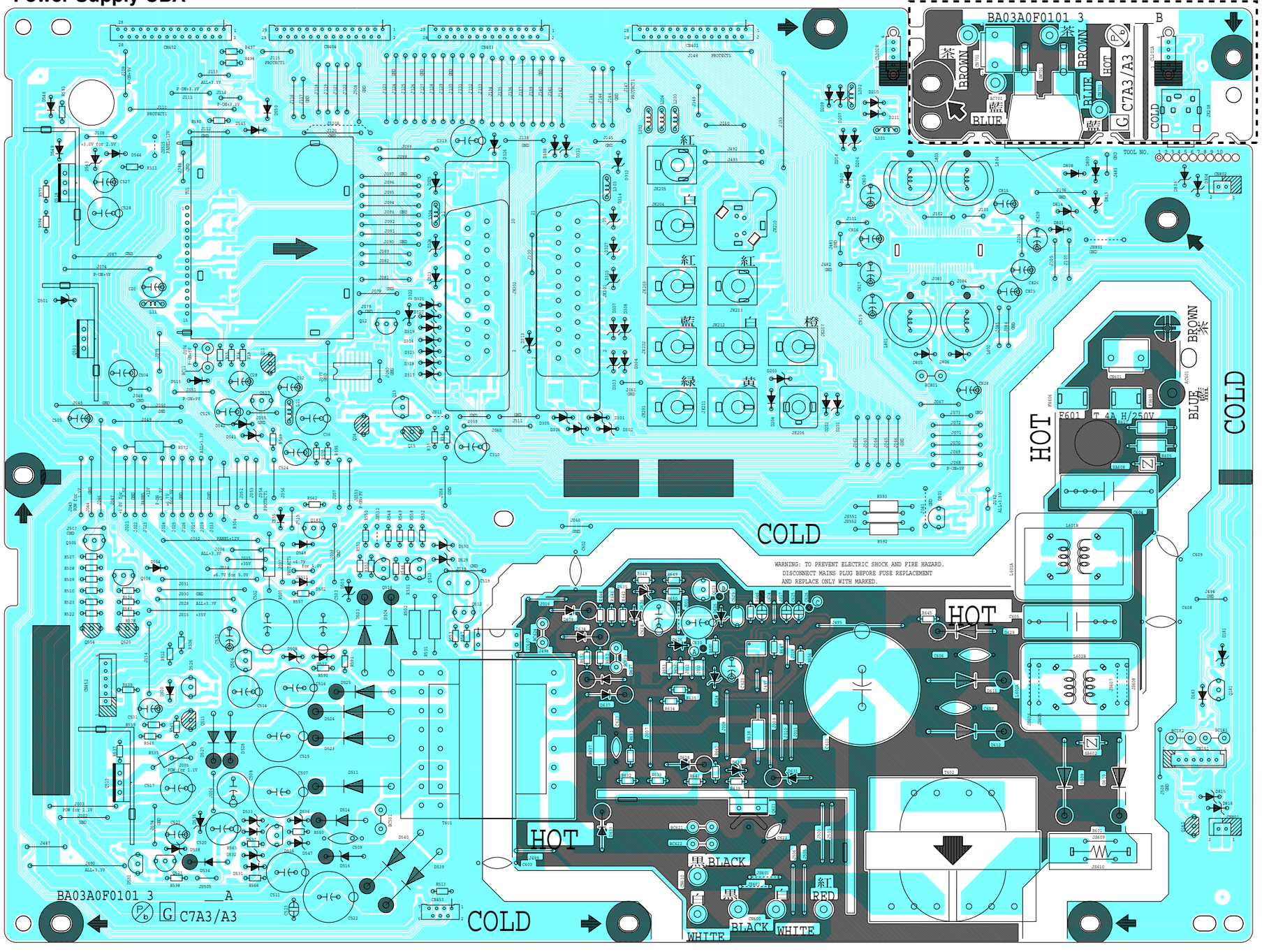
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

Power Supply CBA



Jack CBA

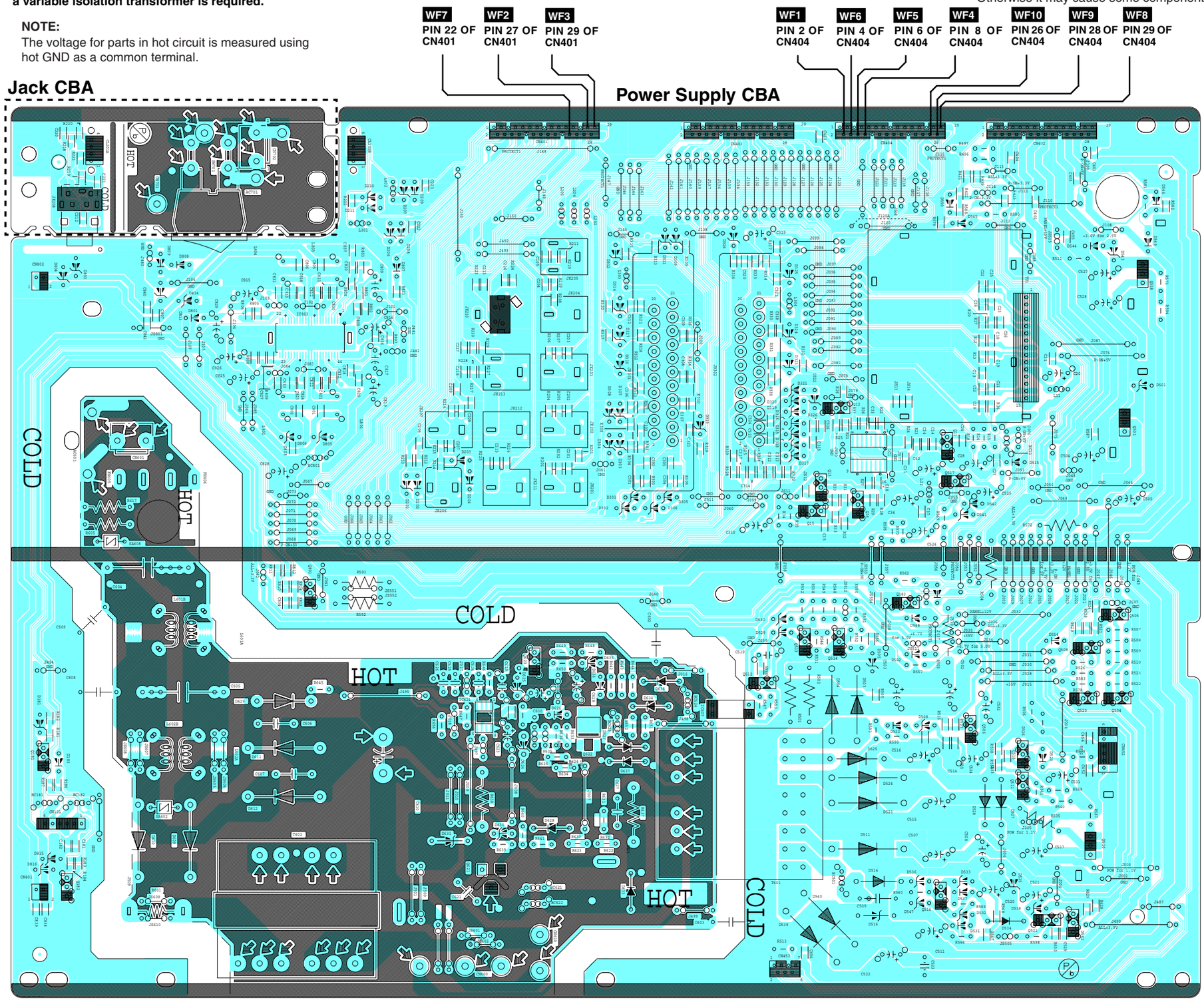
Power Supply CBA & Jack CBA Bottom View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

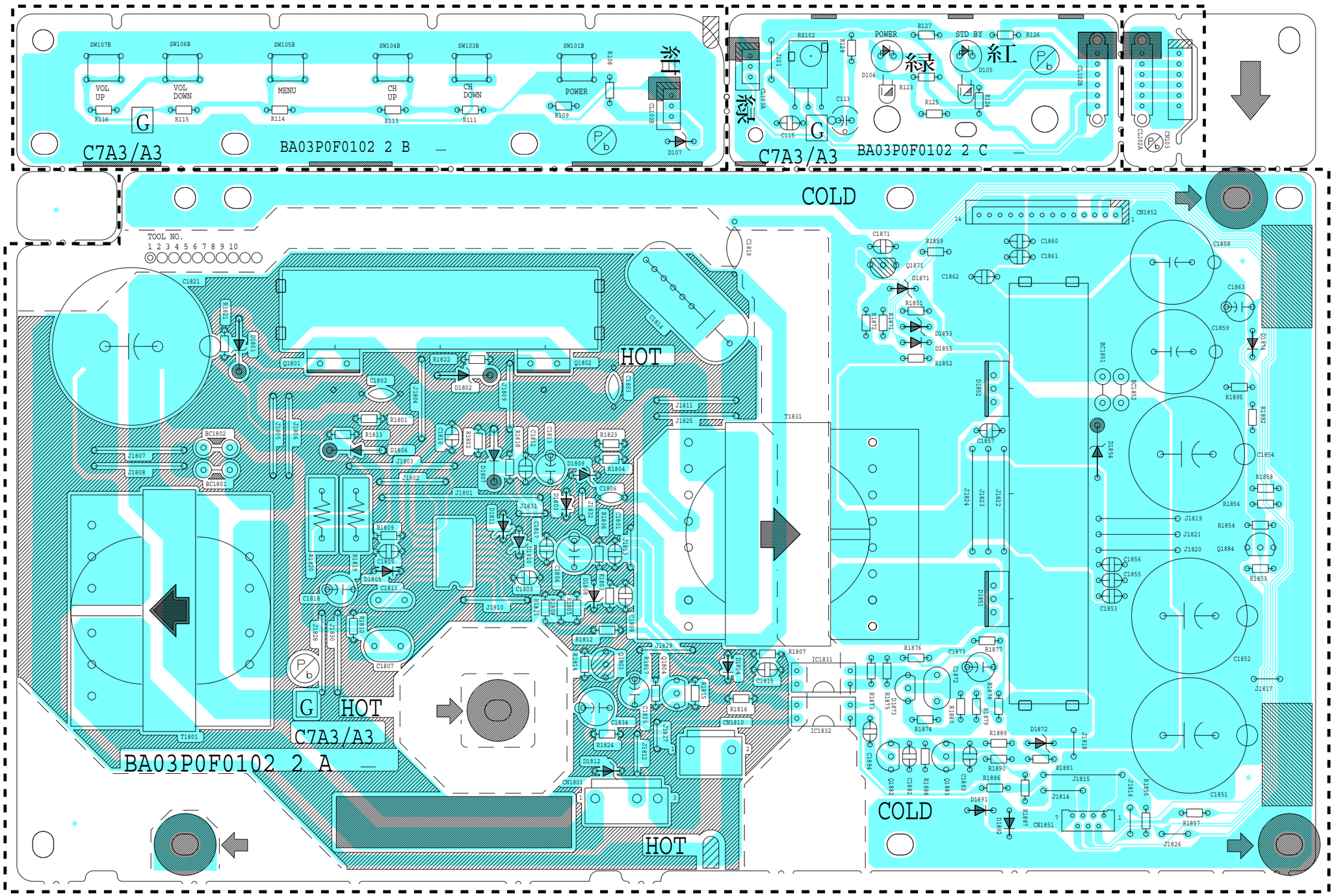


Inverter Power CBA, Function CBA, IR Sensor CBA & Junction CBA Top View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Function CBA **IR Sensor CBA** **Junction CBA**

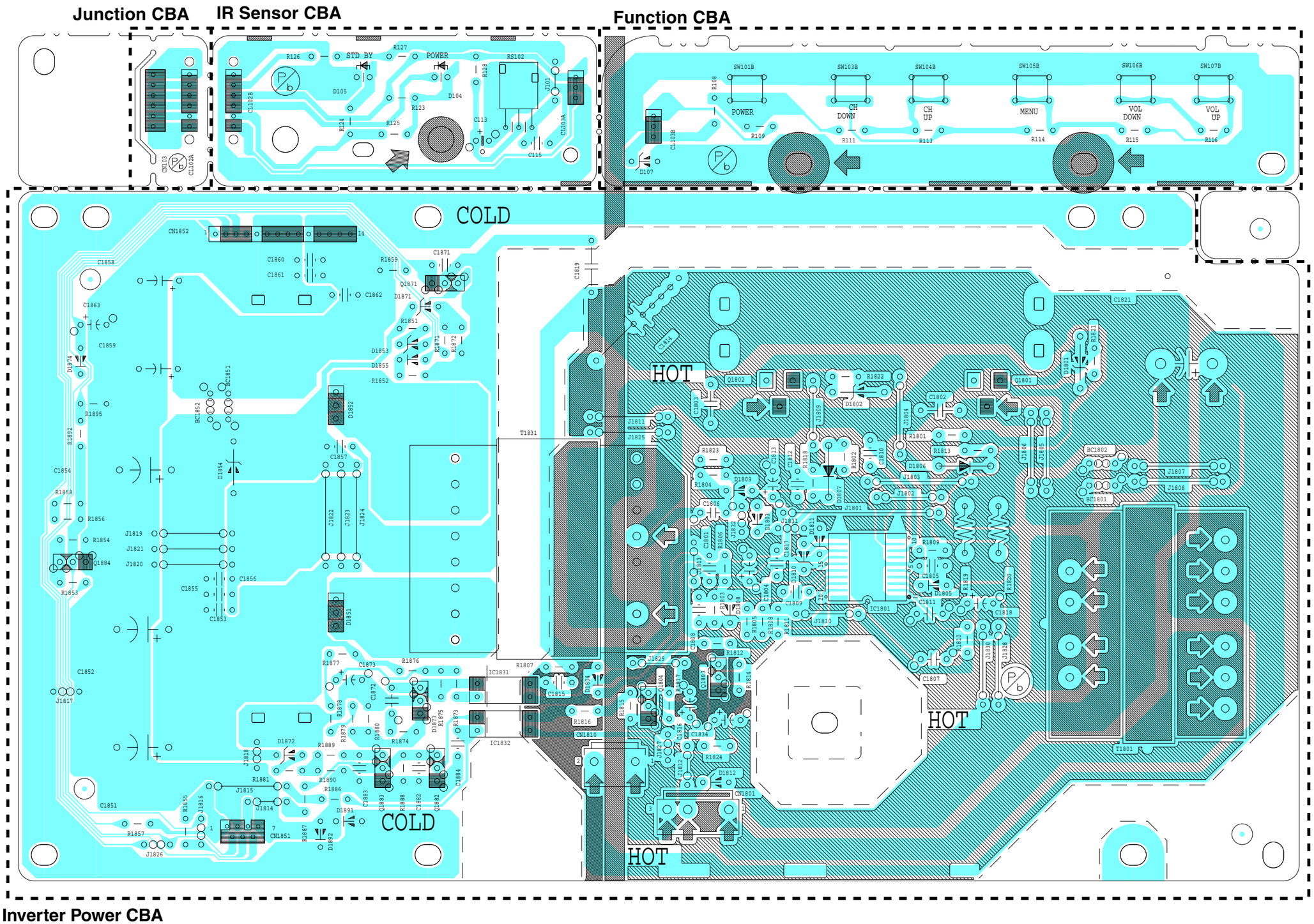


Inverter Power CBA

Inverter Power CBA, Function CBA, IR Sensor CBA & Junction CBA Bottom View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



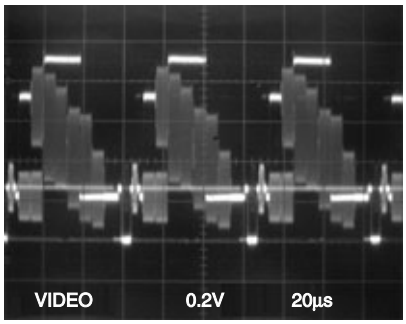
Inverter Power CBA

WAVEFORMS

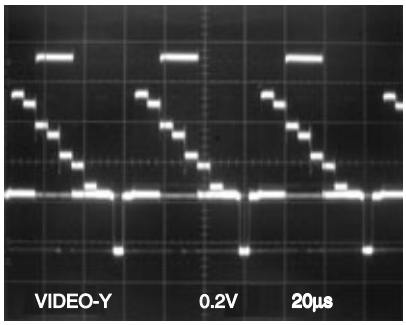
WF1 ~ WF6 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: PAL Color Bar Signal (with 1kHz Audio Signal)

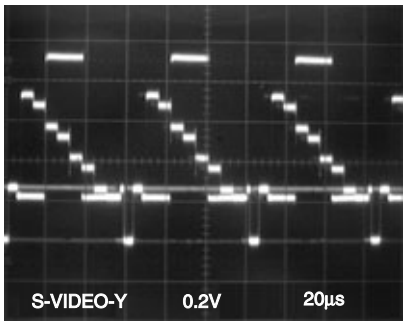
WF1 Pin 2 of CN404



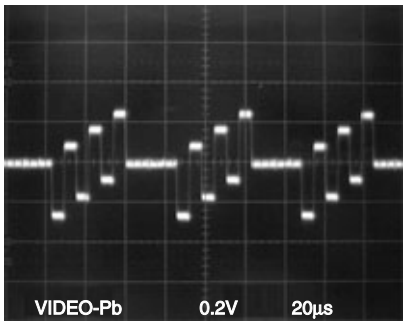
WF4 Pin 8 of CN404



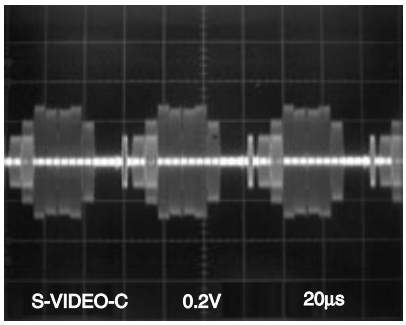
WF2 Pin 27 of CN401



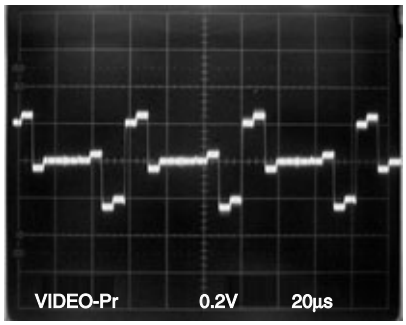
WF5 Pin 6 of CN404



WF3 Pin 29 of CN401



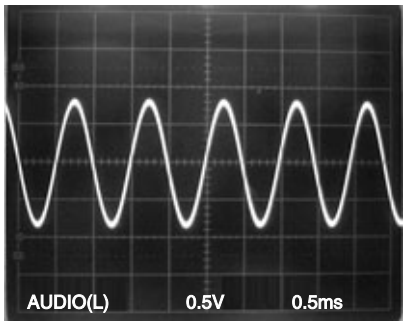
WF6 Pin 4 of CN404



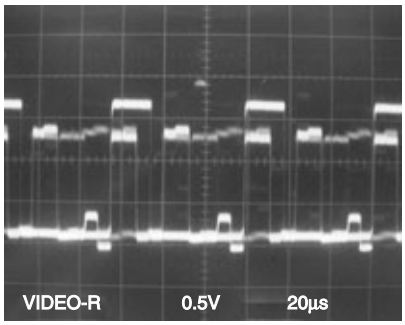
WF7 ~ WF10 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: PAL Color Bar Signal (with 1kHz Audio Signal)

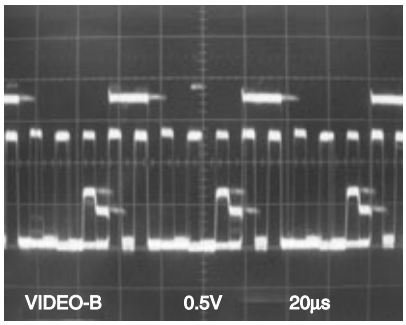
WF7 Pin 22 of CN401



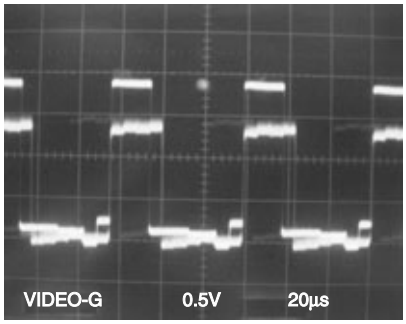
WF10 Pin 26 of CN404



WF8 Pin 29 of CN404



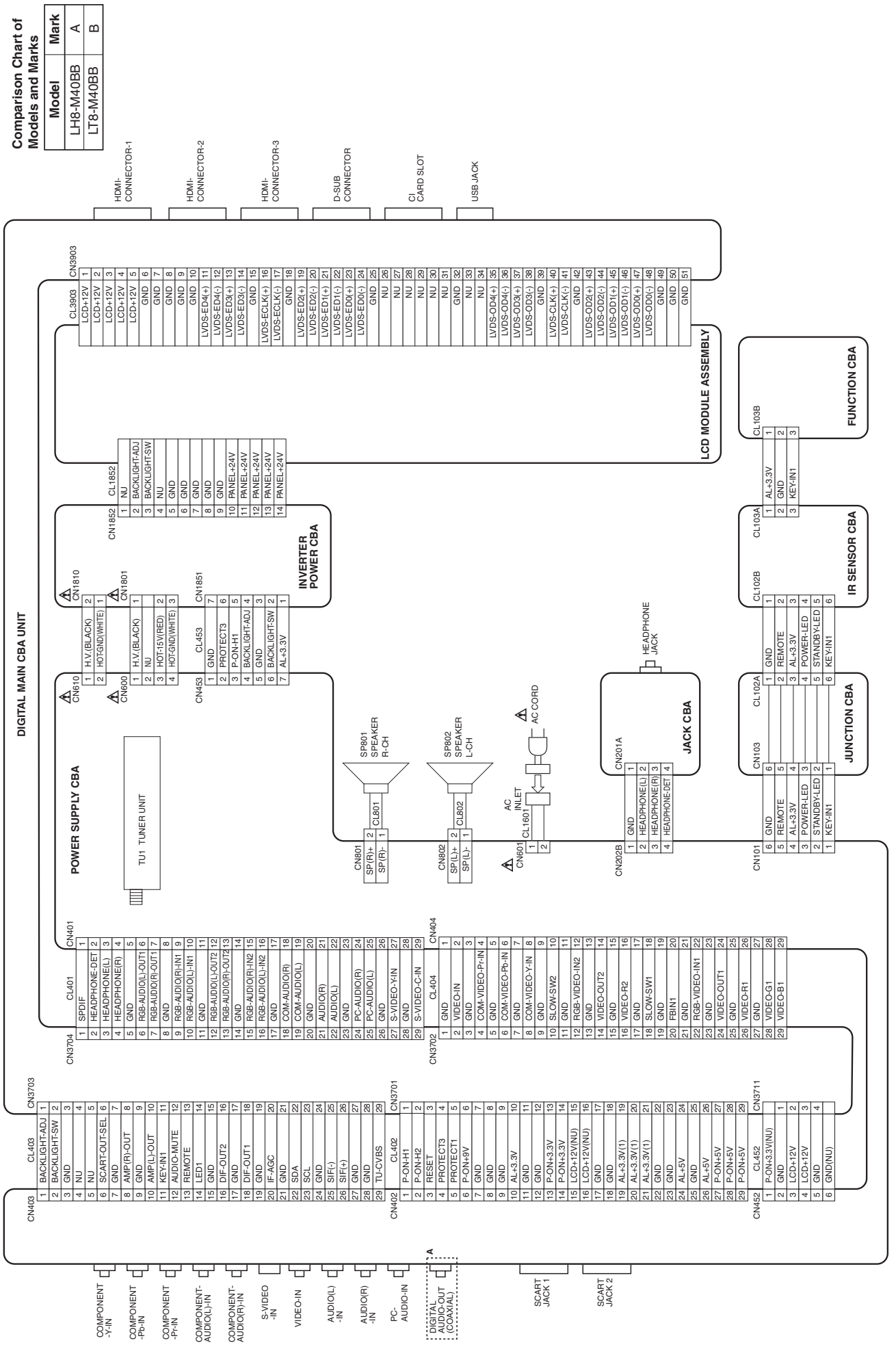
WF9 Pin 28 of CN404



WIRING DIAGRAMS

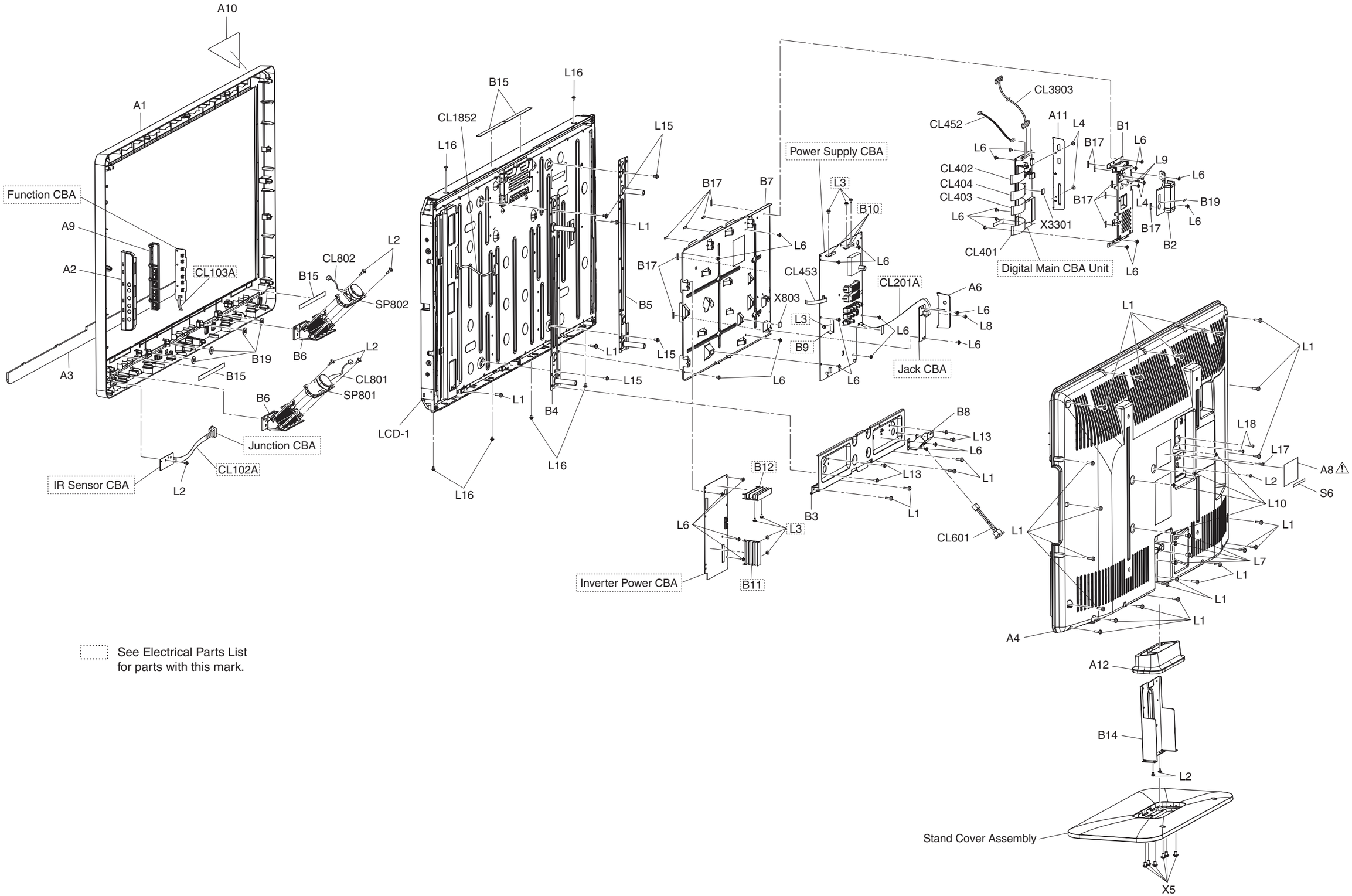
Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B



EXPLODED VIEWS

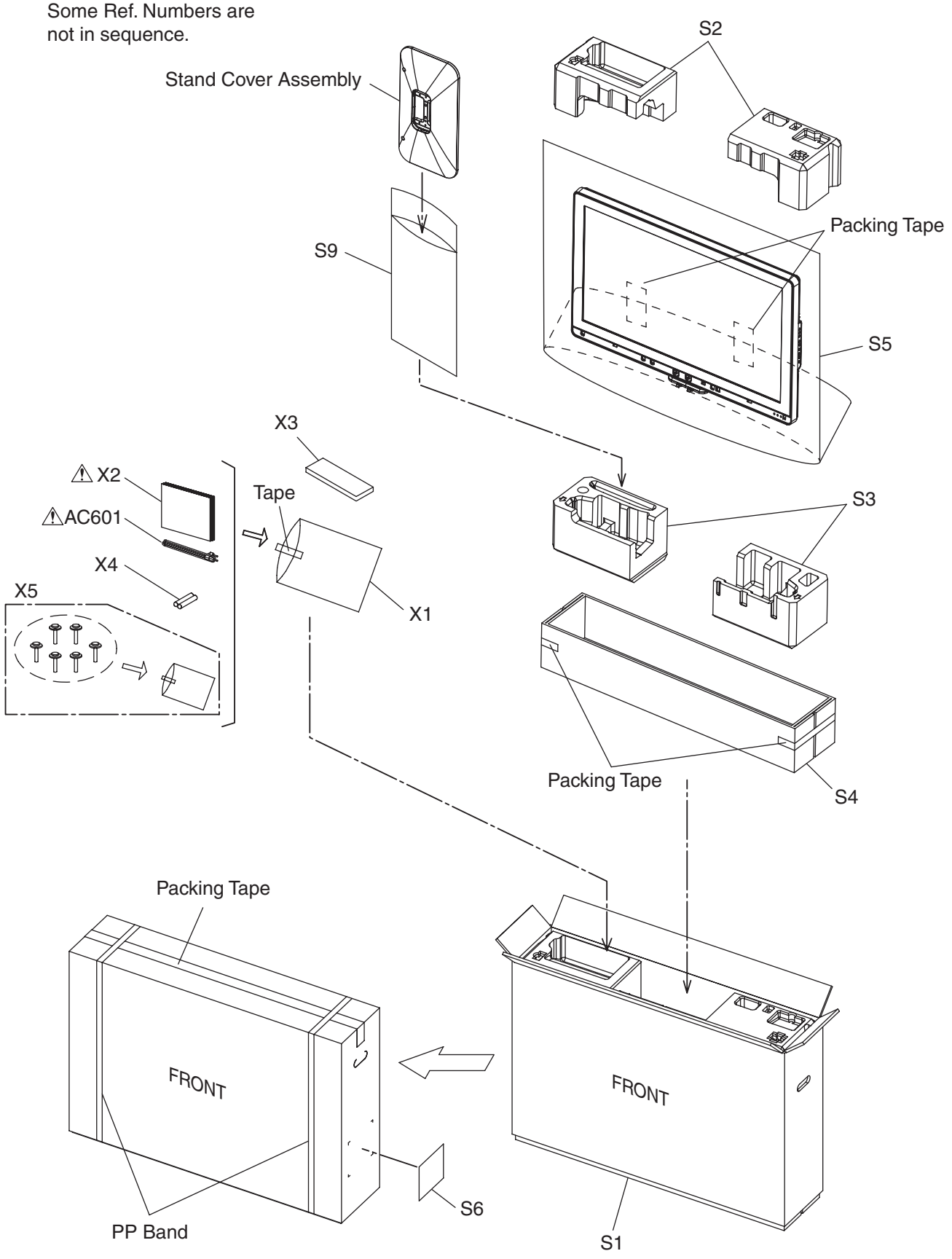
Cabinet



See Electrical Parts List for parts with this mark.

Packing

Some Ref. Numbers are not in sequence.



MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B

Ref. No.	Mark	Description	Part No.
		STAND COVER ASSEMBLY A03P0EZ	1ESA23066
A1		FRONT CABINET A03P0EP	1EM025222
A2		KNOB FRAME A03P0EP	1EM223824
A3	A	DECORATION PLATE A03P0EP	1EM024907
A3	B	DECORATION PLATE A03P1EP	1EM024908
A4	A	REAR CABINET A03P0EP	1EM024909
A4	B	REAR CABINET A03P1EP	1EM024910
A6		JACK HOLDER(HP) A03A0EP	1EM326877
A9		FUNCTION KNOB A03P0EP	1EM223825
A10	A	POP LABEL A03P0EP	---------
A10	B	POP LABEL A03P1EP	---------
A11		JACK HOLDER A93F0FP	1EM123494A
A12		STAND SUB COVER A03P0EP	1EM327558
B1		SHIELD BOX A03A0EP	1EM223605
B2		TUNER SHIELD A03A0EP	1EM223604
B3		STAND BRACKET A03P0EP	1EM124196
B4		WALL MOUNT BRACKET(L) A03P0EP	1EM124193
B5		WALL MOUNT BRACKET(R) A03P0EP	1EM124194
B6		SPEAKER HOLDER A01P0UH	1EM124113
B7		PCB HOLDER A03P0EP	1EM124195
B8		AC INLET HOLDER A01P0UH	1EM327037
B14		STAND HINGE A01P0UH	1EM124035
B15		CLOTH 10X150XT1.0	1EM421092
B17		GASKET A8AF0UH	1EM425861
CL401		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL402		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL403		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL404		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL452		WIRE ASSEMBLY 4-6PIN 4-6PIN/280MM/ AWG24/U	WX1A03P0-204
CL453		WIRE ASSEMBLY 7PIN FFC 7PIN/50MM	WX1A03A0-102
CL601		WIRE ASSEMBLY 2PIN 2PIN/120MM/ AWG18/UL1	WX1A03P0-304
CL801		WIRE ASSEMBLY 2PIN 2PIN/400MM/ AWG24/UL1	WX1A03P0-203
CL802		WIRE ASSEMBLY 2PIN 2PIN/310MM/ AWG24/UL1	WX1A03P0-202
CL1852		WIRE ASSEMBLY 14PIN 14PIN/230MM/ AWG24/UL	WX1A03P0-201
CL3903		WIRE ASSEMBLY 51-51PIN LVDS 51-51PIN/320MM/AWG32	WX1A03P0-401
L2		SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L4		SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L6		ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392B
L8		S-TIGHT SCREW M3X6 BIND HEAD+BLACK	GBHS3060
L9		HEX SCREW #4-40 7MM	1EM430139

Ref. No.	Mark	Description	Part No.
SP801		SPEAKER MAGNETIC S0412F06A or	DSD0809XQ006
		SPEAKER MAGNETIC 8OHM/10W YDP411-5FN	DSD0809EFU01
SP802		SPEAKER MAGNETIC S0412F06A or	DSD0809XQ006
		SPEAKER MAGNETIC 8OHM/10W YDP411-5FN	DSD0809EFU01
X803		THERMOSTAR TMS-L-2(12*12HC)	XK10000X4003
X3301		THERMOSTAR TMS-L-2(12*12HC)	XK10000X4003
PACKING			
S5		SET BAG A03P0EP	1EM327238
S9		STAND BAG A91H2UH	1EM428517
ACCESSORY			
X3		REMOTE CONTROL NF036RD 170/ ECPLC6.501/NF036	NF036RD

Ref. No.	Mark	Description	Part No.
A8⚠	A	RATING LABEL A03P0EP	---------
A8⚠	B	RATING LABEL A03P1EP	---------
B15		CLOTH 10X150XT1.0	1EM421092
B19		CLOTH(B) L5201U0 15X10X1.0T	0EM400076
L1		SCREW P-TIGHT M4X14 BIND HEAD+BLK	GBHP4140
L2		SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L6		ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392B
L7		DOUBLE SEMS SCREW M5X12 BLK M5X12PAN HEAD +BLK	FPH35120
L10		SCREW S-TIGHT 3X8 WASHER HEAD+BLAC	GCHS3080
L13		SCREW SEMS M4X8 PAN HEAD +	FPJ34080
L15		DOUBLE SEMS SCREW M5X8 M5X8 PAN HEAD+	FPJ35080
L16		SCREW S-TIGHT M4X5 BIND HEAD+	GBJS4050
L17		SCREW TAP TIGHT M3X10 BIND HEAD+BLK NI	GBHS3100
L18		SCREW P-TIGHT 3X12 BIND HEAD+ BLK	GBHP3120
LCD-1		LCD MODULE 40W LTA40OHM01	UDULCD0SM006
PACKING			
S1	A	CARTON(U) A03P0EP	1EM327617
S1	B	CARTON(U) A03P1EP	1EM327618
S2		STYROFOAM TOP A03P0EP	1EM024925
S3		STYROFOAM BOTTOM A03P0EP	1EM024926
S4		CARTON(L) A03P0EP	1EM327619
S6		SERIAL NO. LABEL L9750UA	---------
ACCESSORIES			
AC601⚠		CORD W/O A GND WIRE CB/162/NO/ BLACK	WAE0162LW003
⚠		CORD W/O A GND WIRE CEE/152/NO/ BLACK	WAE152ZHN001
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2⚠	A	OWNERS MANUAL(WE-10) A03P0EP or	1EMN25899
⚠	A	OWNERS MANUAL(PL-7) A03P0EP	1EMN25900
X2⚠	B	OWNERS MANUAL(WE-10) A03P1EP or	1EMN25901
⚠	B	OWNERS MANUAL(PL-7) A03P1EP	1EMN25902
X4		BATTERY R6DB/2PA	XB0M601MS003
X5		STAND SCREW KIT A03P0EP	1ESA23712

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
LH8-M40BB	A
LT8-M40BB	B

DIGITAL MAIN CBA UNIT

Ref. No.	Mark	Description	Part No.
	A B	DIGITAL MAIN CBA UNIT DIGITAL MAIN CBA UNIT	A03P0MMA-001 A03P1MMA-001

POWER SUPPLY ASSEMBLY

Ref. No.	Mark	Description	Part No.
	A B	POWER SUPPLY ASSEMBLY POWER SUPPLY ASSEMBLY Consists of the following:	A03P0MPW-001 A03P1MPW-001
		POWER SUPPLY CBA JACK CBA	--------- ---------

POWER SUPPLY CBA

Ref. No.	Mark	Description	Part No.
		POWER SUPPLY CBA Consists of the following:	---------
		CAPACITORS	
C11		CHIP CERAMIC CAP. CH J 15pF/50V	CHD1JJ3CH150
C12		CHIP CERAMIC CAP.(1608) B K 0.01 F/ 50V	CHD1JK30B103
C13		CHIP CERAMIC CAP.(1608) B K 0.01 F/ 50V	CHD1JK30B103
C16		CHIP CERAMIC CAP.(1608) CH J 47pF/ 50V	CHD1JJ3CH470
C18		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C19		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C20		ELECTROLYTIC CAP. 100 F/10V M	CE1AMASDL101
C21		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C22		CHIP CERAMIC CAP.(1608) CH J 47pF/ 50V	CHD1JJ3CH470
C24		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C27		CHIP CERAMIC CAP.(1608) B K 0.01 F/ 50V	CHD1JK30B103
C28		ELECTROLYTIC CAP. 100 F/10V M	CE1AMASDL101
C31		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C33		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C34		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C35		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 25V	CHD1EK30B104
C36		ELECTROLYTIC CAP. 220 F/16V M	CE1CMASDL221
C37		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 25V	CHD1EK30B104
C38		CHIP CERAMIC CAP.(1608) B K 1 F/10V	CHD1AK30B105
C181		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C182		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 50V	CHD1JZ30F104
C204		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C205		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C206		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C207		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C208	A	CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C209	A	CHIP CERAMIC CAP. F Z 1 F/10V	CHD1AZ30F105
C213		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C214		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C215		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C216		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C217		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C222		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C223		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C301		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C302		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C303		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C304		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C305		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C306		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C307		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C308		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C309		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C310		ELECTROLYTIC CAP. 470 F/10V M	CE1AMASDL471
C311		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C312		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C313		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C314		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C315		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C316		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C317		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C318		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C319		ELECTROLYTIC CAP. 470 F/10V M	CE1AMASDL471
C320		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C323		CHIP CERAMIC CAP.(1608) B K 3300pF/ 50V	CHD1JK30B332
C324		CHIP CERAMIC CAP.(1608) B K 3300pF/ 50V	CHD1JK30B332
C401		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C402		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104

Ref. No.	Mark	Description	Part No.
C403		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C404		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C421		CHIP CERAMIC CAP.(1608) CH D 10pF/ 50V or	CHD1JD3CH100
		CHIP CERAMIC CAP.(1608) CH J 10pF/ 50V	CHD1JJ3CH100
C452		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C454		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C456		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C502		ELECTROLYTIC CAP. 2200 F/25V M or	CE1EMZPDL222
		ELECTROLYTIC CAP. 2200 F/25V M	CE1EMZNDL222
C503		ELECTROLYTIC CAP. 2200 F/25V M or	CE1EMZPDL222
		ELECTROLYTIC CAP. 2200 F/25V M	CE1EMZNDL222
C504		ELECTROLYTIC CAP. 100 F/25V M	CE1EMASDL101
C505		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C507		CAP ELE STD-85 4700 F 6.3V SL or	CE0KMZNDL472
		ELECTROLYTIC CAP. 4700 F/6.3V SM or	CE0KMZPDL472
		CAP ELE 4700 F/6.3V/M/85 or	CEA472KSN002
		CAP ELE 4700 F/6.3V/M/85	CEA472TEP002
C508		ELECTROLYTIC CAP. 1000 F/6.3V M	CE0KMASDL102
C509		CERAMIC CAP. 1500pF/2KV or	CA3D152PAN04
		CERAMIC CAP RB 1500pF/2KV or	CA3D152TE006
		CERAMIC CAP. BL 1500pF/2KV	CA3D152XF003
C511		ELECTROLYTIC CAP. 220 F/50V M or	CE1JMZADL221
		ELECTROLYTIC CAP 220 F/50V M	CE1JMZPDL221
C514		ELECTROLYTIC CAP. 2.2 F/50V M	CE1JMASDL2R2
C515		ELECTROLYTIC CAP 3300 F/10V or	CE1AMZNDL332
		ELECTROLYTIC CAP. 3300 F/10V M	CE1AMZPDL332
C516		ELECTROLYTIC CAP. 2200 F/10V M or	CE1AMZNDL222
		ELECTROLYTIC CAP. 2200 F/10V M	CE1AMZPDL222
C517		ELECTROLYTIC CAP. 1000 F/10V M	CE1AMASDL102
C518		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C519		POLYESTER FILM CAP. (PB FREE) 0.1 F/100V J or	CA2A104DT018
		CAP POLYESTER FILM 0.1 F/100V J or	CA2A104SER02
		CAP POLYESTER FILM 0.1 F/100V/J/ PCMT or	CTA104PKR003
		POLYESTER FILM CAP. 0.1 F/100V J or	CMB104EUR001
		POLYESTER FILM CAP. (PB FREE) 0.1 F/100V J	CA2A104DT026
C521		ELECTROLYTIC CAP. 100 F/10V M	CE1AMASDL101
C522		ELECTROLYTIC CAP. 1000 F/25V M or	CE1EMZPDL102
		ELECTROLYTIC CAP. 1000 F/25V M	CE1EMZNDL102
C524		ELECTROLYTIC CAP. 100 F/16V M	CE1CMASDL101
C525		ELECTROLYTIC CAP. 100 F/16V M	CE1CMASDL101
C527		ELECTROLYTIC CAP. 47 F/25V M	CE1EMASDL470
C528		ELECTROLYTIC CAP. 1000 F/10V M	CE1AMASDL102
C529		CHIP CERAMIC CAP.(1608) F Z 0.1 F/ 25V	CHD1EZ30F104
C531		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C533		CHIP CERAMIC CAP.(1608) B K 0.22 F/ 16V	CHD1CK30B224
C534		CHIP CERAMIC CAP.(1608) B K 0.22 F/ 16V	CHD1CK30B224
C535		CHIP CERAMIC CAP.(1608) B K 0.047 F/ 50V	CHD1JK30B473
C604⚠		CAP METALIZED FILM 0.47 F/300V K 3.5MM or	CT2F474DC004
⚠		CAP METALIZED FILM 0.47 F/310V /K/ LE-MX or	CTA4740DC001
⚠		CAP METALIZED FILM 0.47 F/250V/K/ MPX	CTA474EUR001
C605⚠		CAP METALIZED FILM 0.47 F/300V K 3.5MM or	CT2F474DC004
⚠		CAP METALIZED FILM 0.47 F/310V /K/ LE-MX or	CTA4740DC001
⚠		CAP METALIZED FILM 0.47 F/250V/K/ MPX	CTA474EUR001
C606		CERAMIC CAP. B K 0.01 F/500V	CCD2JKP0B103

Ref. No.	Mark	Description	Part No.
C607		CERAMIC CAP. B K 0.01 F/500V	CCD2JKP0B103
C608⚠		CAP CERAMIC 680pF/250V KX or	CA2E681MR100
⚠		SAFETY CAP. 680pF/250V M or	CCN2HMN0E681
⚠		SAFETY CAP. 680pF/250	CCN2EKA0B681
C610		CAP ELECTROLYTIC 270 F/400V/M/30/ 30 or	CA2H271DYG10
		ELECTROLYTIC CAPACITOR 270 F/ 400V or	CA2H271NC226
		ELECTROLYTIC CAP. 270 F/400V M	CA2H271S6037
C621		CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
		CERAMIC CAP. RB 470pF/2KV or	CA3D471TE006
		CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C623		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C624		CAP CERAMIC (AX) 220pF/50V/B/K	CA1J221TU061
C625		CAP CERAMIC (AX) 0.01 F/50V/B/K	CA1J103TU061
C626		CAP CERAMIC (AX) 0.022 F/50V/B/K	CA1J223TU061
C628		ELECTROLYTIC CAP. 100 F/35V M	CE1GMASDL101
C629		POLYESTER FILM CAP. (PB FREE) 0.001 F/100V J or	CA2A102DT018
		CAP POLYESTER FILM 0.001 F/100V J or	CA2A102SER02
		POLYESTER FILM CAP. 0.001 F/100V J or	CMB102EUR001
		POLYESTER FILM CAP. (PB FREE) 0.001 F/100V J or	CA2A102DT026
		CAP POLYESTER FILM 0.001 F/100/J/ AMB	CMB1020DT001
C630		ELECTROLYTIC CAP. 100 F/35V M	CE1GMASDL101
C631		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C801		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C802		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C803		CHIP CERAMIC CAP.(1608) B K 0.47 F/ 16V	CHD1CK30B474
C805		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C806		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C807		CHIP CERAMIC CAP.(1608) B K 0.47 F/ 16V	CHD1CK30B474
C809		ELECTROLYTIC CAP. 2.2 F/50V M	CE1JMASDL2R2
C810		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C811		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C812		CHIP CERAMIC CAP.(1608) B K 1 F/25V	CHD1EK30B105
C813		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C814		CHIP CERAMIC CAP.(1608) B K 1 F/25V	CHD1EK30B105
C815		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C816		ELECTROLYTIC CAP. 2.2 F/50V M	CE1JMASDL2R2
C817		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C818		CHIP CERAMIC CAP.(1608) B K 1 F/25V	CHD1EK30B105
C819		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C820		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C821		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C822		CHIP CERAMIC CAP.(1608) B K 1 F/25V	CHD1EK30B105
C823		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C824		CHIP CERAMIC CAP.(1608) B K 1 F/25V	CHD1EK30B105
C825		ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C826		ELECTROLYTIC CAP. 3.3 F/50V M	CE1JMASDL3R3
C827		CHIP CERAMIC CAP.(1608) B K 0.1 F/ 50V	CHD1JK30B104
C828		ELECTROLYTIC CAP. 47 F/25V M	CE1EMASDL470
C830		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C831		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C832		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102

Ref. No.	Mark	Description	Part No.
C833		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C835		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C836		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C838		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C839		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C840		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C841		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
CONNECTORS			
CN101		242 SERIES CONNECTOR 224202106W1	J322C06TG001
CN401		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN402		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN403		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN404		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN452		PH CONNECTOR TOP 6P B6B-PH-K-S (LF)(SN) or	J3PHC06JG029
		CONNECTOR PRINT OSU C S 440054-6 or	J344C06AP001
		CONNECTOR PRINT OSU JS-1125-06(K)	J3JT06CHY001
CN453		FPC/FFC CONNECTOR IMSA-9615S-07A-PP-A or	JC96J07ER007
		CONNECTOR PRINT MES 07 S 1.0-11-7P or	JC1107JSH001
		CONNECTOR PRINT MES 00 6232 007 006 800+	JC62G07UG026
CN600 ⚠		WIRE ASSEMBLY 3PIN 3PIN/70MM/ AWG18/UL10	WX1A03P0-303
CN601		CONNECTOR B2P3-VH(LF)(SN) or	J3VH020JG001
		CONNECTOR PRINT OSU 02/S/JS-1120-03N02	J3JT02CHY004
CN610 ⚠		WIRE ASSEMBLY 2PIN 2PIN/80MM/ AWG18/BLAC	WX1A03A0-302
CN801		PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or	J3PHC02JG029
		CONNECTOR PRINT OSU TOP 2P 440054-2 or	J344C02AP001
		CONNECTOR PRINT OSU JS-1125-02KK	J3JT02CHY002
CN802		PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or	J3PHC02JG029
		CONNECTOR PRINT OSU TOP 2P 440054-2 or	J344C02AP001
		CONNECTOR PRINT OSU JS-1125-02KK	J3JT02CHY002
DIODES			
D183		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D301		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D302		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N

Ref. No.	Mark	Description	Part No.
D303		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D304		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D305		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D306		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D307		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D308		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D309		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D310		DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
		DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D311		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D312		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D313		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D314		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D315		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D316		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D317		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D318		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D319		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D320		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D321		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D322		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D323		DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
		DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D324		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D325		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D326		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D501		DIODE ZENER 13BSB-T26 or	NDTB013BST26
		ZENER DIODE MTZJT-7713B or	QDTB00MTZJ13
		DIODE ZENER DO-34 MTZJ13B or	NDTB00MTZJ13
		DIODE ZENER HZS13NB2TE-EQ	QDTBHZS13NB2
D502		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D503		SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D504		SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D505		DIODE ZENER 18BSB-T26 or	NDTB018BST26
		DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D508		DIODE ZENER 8V2BSA-T26 or	NDTA8R2BST26
		DIODE ZENER HZS8.2NB1TE-EQ	QDTA0HZS8R2N
D511		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D514		DIODE FR154 or	NDLZ000FR154
		DIODE FR154BD	NDL1000FR154
D515		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F

Ref. No.	Mark	Description	Part No.
D516		DIODE ZENER 1ZB43BB	NDWZ0001ZB43
D520		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D522		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D523		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D524		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D525		SCHOTTKY BARRIER DIODE SB270-B/P	NDWZ000SB270
D526		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D527		DIODE FR154 or	NDLZ000FR154
		DIODE FR154BD	NDL1000FR154
D528		DIODE FR154 or	NDLZ000FR154
		DIODE FR154BD	NDL1000FR154
D529		DIODE ZENER 6V2BSB-T26 or	NDTB6R2BST26
		DIODE ZENER HZS6.2NB2TE-EQ	QDTB0HZS6R2N
D530		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D531		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
D532		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
D533		DIODE ZENER 6V2BSB-T26 or	NDTB6R2BST26
		DIODE ZENER HZS6.2NB2TE-EQ	QDTB0HZS6R2N
D534		DIODE FR104-B or	NDLZ000FR104
		DIODE FR104BB	NDL1000FR104
D536		DIODE ZENER 6V2BSC-T26 or	NDTC6R2BST26
		DIODE ZENER HZS6.2NB3TE-EQ	QDTC0HZS6R2N
D537		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D538		DIODE ZENER 6V8BSB-T26 or	NDTB6R8BST26
		DIODE ZENER HZS6.8NB2TE-EQ	QDTB0HZS6R8N
D539		SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D540		SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D541		DIODE ZENER 3V3BSB-T26 or	NDTB3R3BST26
		DIODE ZENER HZS3.3NB2TE-EQ	QDTB0HZS3R3N
D542		DIODE ZENER 6V2BSB-T26 or	NDTB6R2BST26
		DIODE ZENER HZS6.2NB2TE-EQ	QDTB0HZS6R2N
D543		DIODE ZENER 5V6BSC-T26 or	NDTC5R6BST26
		DIODE ZENER HZS5.6NB3TE-EQ	QDTC0HZS5R6N
D544		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
D545		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D546		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D549		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D550		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D552		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D554		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D555		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D609		DIODE 1N5408-B/P or	NDLZ001N5408
		DIODE RECTIFIEY 1N5408BH	NDL2001N5408
D610		DIODE 1N5408-B/P or	NDLZ001N5408
		DIODE RECTIFIEY 1N5408BH	NDL2001N5408
D611		DIODE 1N5408-B/P or	NDLZ001N5408
		DIODE RECTIFIEY 1N5408BH	NDL2001N5408
D612		DIODE 1N5408-B/P or	NDLZ001N5408
		DIODE RECTIFIEY 1N5408BH	NDL2001N5408
D624		DIODE ZENER 27BSB-T26 or	NDTB027BST26
		DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D625		DIODE ZENER 27BSB-T26 or	NDTB027BST26
		DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D626		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D627		DIODE FR104-B or	NDLZ000FR104
		DIODE FR104BB	NDL1000FR104
D628		DIODE FR104-B or	NDLZ000FR104
		DIODE FR104BB	NDL1000FR104
D629		DIODE 1N5399BE or	NDL1001N5399
		DIODE 1N5399-B/P	NDLZ001N5399
D630		DIODE ZENER 27BSB-T26 or	NDTB027BST26
		DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D631		DIODE ZENER 1ZB18BB	NDWZ0001ZB18
D634		DIODE FR104-B or	NDLZ000FR104
		DIODE FR104BB	NDL1000FR104
D635		DIODE ZENER 9V1BSB-T26 or	NDTB9R1BST26
		DIODE ZENER HZS9.1NB2TE-EQ	QDTB0HZS9R1N
D636		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D637		DIODE FR104-B or	NDLZ000FR104
		DIODE FR104BB	NDL1000FR104
D638		DIODE FR104-B or	NDLZ000FR104
		DIODE FR104BB	NDL1000FR104
D801		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D803		DIODE ZENER 18BSB-T26 or	NDTB018BST26
		DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D804		DIODE ZENER 18BSB-T26 or	NDTB018BST26
		DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D807		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D815		DIODE ZENER 18BSB-T26 or	NDTB018BST26
		DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D816		DIODE ZENER 18BSB-T26 or	NDTB018BST26
		DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
ICS			
IC1		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC SWITCH 4053L-S16-R or	NSZBA0TUTC04
		IC ANALOG MULTIPLEXERS HCF4053M013TR or	NSZBA0SSS002
		IC ANALOG MULTIPLEXER CD4053BNSR	NSZBA0TTY093
IC607⚠		PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC621		IC SWITING FA5571N-D1-TE1/SOP-8	QSCA0T0FD003
IC803		IC D-AMP BD5426EFS-E2	QSZBA0TRM137
COILS			
L11		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
L21		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
L202		INDUCTOR 0.22 H-J-26T	LLAXJATTUR22
L203		INDUCTOR 0.22 H-J-26T	LLAXJATTUR22
L204		INDUCTOR 0.22 H-J-26T	LLAXJATTUR22

Ref. No.	Mark	Description	Part No.
L301		INDUCTOR 4.7 H-J-26T	LLAXJATTU4R7
L302		INDUCTOR 4.7 H-J-26T	LLAXJATTU4R7
L303		INDUCTOR 12 H-J-26T	LLAXJATTU120
L304		INDUCTOR 12 H-J-26T	LLAXJATTU120
L601A⚠		LINE FILTER MS036 or	LLBG00ZY2009
⚠		LINE FILTER JLB2808	LLBG00ZXB004
L602A⚠		LINE FILTER MS036 or	LLBG00ZY2009
⚠		LINE FILTER JLB2808	LLBG00ZXB004
L801		RADIAL LEAD INDUCTORS 33 H or	LLARKGQTU330
		COIL SEALED POWER INDUCTORS CWKBNP-330K 33 H or	LLF3300KV002
		COIL DRUM JLC0896 33 H	LLED0A0XB002
L802		RADIAL LEAD INDUCTORS 33 H or	LLARKGQTU330
		COIL SEALED POWER INDUCTORS CWKBNP-330K 33 H or	LLF3300KV002
		COIL DRUM JLC0896 33 H	LLED0A0XB002
L803		RADIAL LEAD INDUCTORS 33 H or	LLARKGQTU330
		COIL SEALED POWER INDUCTORS CWKBNP-330K 33 H or	LLF3300KV002
		COIL DRUM JLC0896 33 H	LLED0A0XB002
L804		RADIAL LEAD INDUCTORS 33 H or	LLARKGQTU330
		COIL SEALED POWER INDUCTORS CWKBNP-330K 33 H or	LLF3300KV002
		COIL DRUM JLC0896 33 H	LLED0A0XB002
		TRANSISTORS	
Q11		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q12		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q15		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q181		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q182		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q183		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
Q501		NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
		TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
		NPN TRANSISTOR STC403	NQEZ00STC403
Q504		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q505		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q506		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q508		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q510		NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
		TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
		NPN TRANSISTOR STC403	NQEZ00STC403
Q511		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q512		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M

Ref. No.	Mark	Description	Part No.
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q513		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q514		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q516		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q517		TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
		TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
		NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
		NPN TRANSISTOR 2SC5344O-AT	NQS002SC5344
Q518		NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
		TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
		NPN TRANSISTOR STC403	NQEZ00STC403
Q520		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q521		TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
		TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
		NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
		NPN TRANSISTOR 2SC5344O-AT	NQS002SC5344
Q621		FET 2SK3566(Q) or	QFWZ02SK3566
		FET 2SK3566(Q M)	QFQZSK3566QM
Q622		FET POWER MOS SMD KHB1D0N60D-RTF/PMC or	NF1ZKHB1D0N6
		FET 2SK3498(T6L1FUNANQ)	QF1Z02SK3498
Q623		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M

Ref. No.	Mark	Description	Part No.
		RESISTORS	
R12		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R13		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R14		RES CARBON FILM 1/4W J 1.2k Ω or	RCX4122FS002
		RES CARBON FILM T 1/4W J 1.2k Ω	RCX4122T1001
R15		RES CARBON FILM 1/4W J 100 Ω or	RCX4101FS002
		RES CARBON FILM T 1/4W J 100 Ω	RCX4101T1001
R17		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R18		RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
		RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R25		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R26		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R30		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R31		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R33		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R35		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R37		CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
		RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R181		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R182		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R183		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R184		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R186		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R201		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R203		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R204		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R206		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R208		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R209		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R210		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R211		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R212		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R213		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R214		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R215		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R216	A	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	A	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R217	A	CHIP RES. 1/10W J 300 Ω or	RRXAJR5Z0301
	A	RES CHIP 1608 1/10W J 300 Ω	RRXA301YF002
R222		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002

Ref. No.	Mark	Description	Part No.
R226		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R227		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R228		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R229		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R230		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R301		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R303		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R304		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R305		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R307		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R308		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R309		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R310		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R311		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R312		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R313		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R314		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R315		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R316		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R317		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R318		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R319		CHIP RES. 1/10W J 39 Ω or	RRXAJR5Z0390
		RES CHIP 1608 1/10W J 39 Ω	RRXA390YF002
R320		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R321		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R322		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R324		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R325		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R326		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R328		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R329		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R330		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R331		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R332		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R333		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R334		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R335		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R336		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R422		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R423		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R495		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R503		METAL OXIDE FILM RES. 2W J 0.27 Ω or	RN02R27ZU001
		METAL OXIDE FILM RES. 2W J 0.27 Ω	RN02R27DP004
R504		METAL OXIDE FILM RES. 2W J 0.27 Ω or	RN02R27ZU001
		METAL OXIDE FILM RES. 2W J 0.27 Ω	RN02R27DP004
R506		RES CARBON FILM 1/4W J 1.5k Ω or	RCX4152FS002
		RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R507		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R508		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R509		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R510		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R515		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R521		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R522		RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
		RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R523		RES CARBON FILM 1/4W J 27k Ω or	RCX4273FS002
		RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R524		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R526		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R527		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R529		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R531		RES CARBON FILM 1/4W J 47k Ω or	RCX4473FS002
		RES CARBON FILM T 1/4W J 47k Ω	RCX4473T1001
R532		RES CARBON FILM 1/4W J 6.8k Ω or	RCX4682FS002
		RES CARBON FILM T 1/4W J 6.8k Ω	RCX4682T1001
R535		METAL OXIDE FILM RES. 1W J 0.27 Ω	RN01R27ZU001
R536		CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
		CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
		RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R537		RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002
		RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R538		CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
		CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
		RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R540		RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
		RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001
R541		RES CARBON FILM 1/4W J 22k Ω or	RCX4223FS002
		RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R545		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R546		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R547		RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
		RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001
R548		RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002

Ref. No.	Mark	Description	Part No.
		RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R549		RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
		RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R550		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R551		RES CARBON FILM 1/4W J 12k Ω or	RCX4123FS002
		RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R552		RES CARBON FILM 1/4W J 12k Ω or	RCX4123FS002
		RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R553		RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
		RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R556		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R557		RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
		RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R558		RES CARBON FILM 1/4W J 27k Ω or	RCX4273FS002
		RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R559		RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
		RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R560		RES CARBON FILM 1/4W J 68 Ω or	RCX4680FS002
		RES CARBON FILM T 1/4W J 68 Ω	RCX4680T1001
R562		RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
		RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R565		RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002
		RES CARBON FILM T 1/4W J 1.8k Ω	RCX4182T1001
R566		RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002
		RES CARBON FILM T 1/4W J 1.8k Ω	RCX4182T1001
R567		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R568		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R569		RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
		RES CARBON FILM T 1/4W J 47 Ω	RCX4470T1001
R570		RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002
		RES CARBON FILM T 1/4W J 1.8k Ω	RCX4182T1001
R572		METAL OXIDE FILM RES. 1W J 1 Ω	RN011R0ZU001
R573		RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
		RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R578		RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
		RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R580		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R581		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R583		RES CARBON FILM 1/4W J 100k Ω or	RCX4104FS002
		RES CARBON FILM T 1/4W J 100k Ω	RCX4104T1001
R586		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R590		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R591		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R594		RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
		RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R595		RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
		RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R598		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R605⚠		GLASS GLAZE RES. 1/2W J 1M Ω	RXX2JZLZ0105
R621	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	A	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R621	B	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	B	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	B	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R622	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004

Ref. No.	Mark	Description	Part No.
	A	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R622	B	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	B	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	B	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R623	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	A	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R623	B	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	B	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	B	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R624	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	A	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R624	B	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	B	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	B	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R625	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	A	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	A	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R625	B	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	B	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	B	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R628		CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
		CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
		RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R629		CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
		CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
		RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R630		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R636		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R638		METAL RESISTER. 2W J 0.56 Ω	RN02R56ZU001
R639		RES CARBON FILM 1/4W J 4.7k Ω or	RCX4472FS002
		RES CARBON FILM T 1/4W J 4.7k Ω	RCX4472T1001
R640		RES CARBON FILM 1/4W J 100 Ω or	RCX4101FS002
		RES CARBON FILM T 1/4W J 100 Ω	RCX4101T1001
R641		RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002
		RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R642		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R643		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R644		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
R645		RES CARBON FILM 1/4W J 8.2k Ω or	RCX4822FS002
		RES CARBON FILM T 1/4W J 8.2k Ω	RCX4822T1001
R646		RES CARBON FILM 1/4W J 68k Ω or	RCX4683FS002
		RES CARBON FILM T 1/4W J 68k Ω	RCX4683T1001
R647		RES CARBON FILM 1/4W J 22 Ω or	RCX4220FS002
		RES CARBON FILM T 1/4W J 22 Ω	RCX4220T1001
R648		RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
		RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R649		RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
		RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R650		RES CARBON FILM 1/4W J 1.2k Ω or	RCX4122FS002
		RES CARBON FILM T 1/4W J 1.2k Ω	RCX4122T1001
R651		RES CARBON FILM 1/4W J 5.6 Ω or	RCX45R6FS002
		RES CARBON FILM T 1/4W J 5.6 Ω	RCX45R6T1001
R652		RES CARBON FILM 1/4W J 5.6 Ω or	RCX45R6FS002
		RES CARBON FILM T 1/4W J 5.6 Ω	RCX45R6T1001
R653		RES CARBON FILM 1/4W J 100k Ω or	RCX4104FS002
		RES CARBON FILM T 1/4W J 100k Ω	RCX4104T1001
R657		RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
		RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R801		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002

Ref. No.	Mark	Description	Part No.
R802		CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
		CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
		RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R803		CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
		CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
		RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R804		CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
		CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
		RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R806		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R807		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R810		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R824		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
MISCELLANEOUS			
B9		HEAT SINK PMR ASSEMBLY A8CN0FP	1EM425837A
B10		MODULE HEAT SINK PMC P7150UT	1EM423968
BC11		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC181		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
BC182		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
BC501		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC621		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC622		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC623		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC624		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC801		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
F601⚠		FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021
FH605		FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH606		FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JK201		JACK RCA PCB S GREEN 01/RCA-101H(GN) or	JXRJ010YUQ03
		JACK RCA PCB S(GREEN) 01 MTJ-032-04B-73 FE	JXRJ010LY030
JK202		JACK RCA PCB S BLUE 01/RCA-101H(BL) or	JXRJ010YUQ04
		JACK RCA PCB S(BLUE) 01 MTJ-032-04B-74 FE	JXRJ010LY033
JK203		JACK RCA PCB S RED 01/RCA-101H(RD) or	JXRJ010YUQ01
		JACK RCA PCB S(RED) 01 MTJ-032-04B-75 FE	JXRJ010LY028
JK204		JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ010YUQ02
		JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE	JXRJ010LY031
JK205		JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK206		JACK HPEP SML PCB S PJ-358H or	JXSJ020YUQ01
		JACK HPEP SML PCB S 02 MSJ-035-29D (ABS)	JXSJ020LY001
JK207	A	JACK RCA PCB S ORANGE 01/RCA-101H(OR) or	JXRJ010YUQ06
	A	JACK RCA PCB S(ORANGE) 01 MTJ-032-04B-76 FE	JXRJ010LY029
JK210		JACK SW DIN PCB S 04/DIN-417HA-01 or	JYEJ040YUQ03
		JACK SW DIN PCB S 04 MDC-076H-A LF	JYEJ040LY002
JK211		JACK RCA PCB S YELLOW 01/RCA-101H(YL) or	JXRJ010YUQ05
		JACK RCA PCB S (YELLOW) 01 MTJ-032-04B-40 FE	JXRJ010LY032
JK212		JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ010YUQ02
		JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE	JXRJ010LY031
JK213		JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK301		JACK RGB PCB S 01/RGB-11HS	JXGJ21YUQ001
JK302		JACK RGB PCB S 01/RGB-11HS	JXGJ21YUQ001
JS12		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
JS13		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
JS14		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
JS505		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS511		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS551		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS552		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS553		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS609		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS610		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
JS801		WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
		WIRE COPPER JP0.6MM	XZ40C0AKM001
L3		SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA602⚠		SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
⚠		VARISTOR 10D 471K SVR	NVQZVR10D471
SA608⚠		SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
⚠		VARISTOR 10D 471K SVR	NVQZVR10D471
T601⚠		TRANS POWER BCK-35-0720	LTT3PE0XB058
T602⚠		PFC CHOKE JCC41-0026	LLEE0Z0XB009

JACK CBA

Ref. No.	Mark	Description	Part No.
		JACK CBA Consists of the following:	---------
CAPACITORS			
C212		CHIP CERAMIC CAP. F Z 1 F/10V	CHD1AZ30F105
C220		CHIP CERAMIC CAP.(1608) B K 0.047 F/ 50V	CHD1JK30B473
C221		CHIP CERAMIC CAP.(1608) B K 0.047 F/ 50V	CHD1JK30B473
RESISTORS			
R218		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R219		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
MISCELLANEOUS			
JK208		JACK SW HPEP SML PCB L PJ-350 or	JYSL010YUQ03
		JACK SW HPEP SML PCB L MSJ-2000 AG(B110)	JYSL010LY005
CL201A		WIRE ASSEMBLY 4PIN 4PIN/120MM/ AWG26/STR	WX1A03A0-001

INVERTER ASSEMBLY

Ref. No.	Description	Part No.
	INVERTER ASSEMBLY Consists of the following:	A03P0M1V-002
	INVERTER POWER CBA FUNCTION CBA IR SENSOR CBA JUNCTION CBA	--------- --------- --------- ---------

INVERTER POWER CBA

Ref. No.	Description	Part No.
	INVERTER POWER CBA Consists of the following:	---------
	CAPACITORS	
C1801	CAP CERAMIC (AX) 0.1 F/50V/F/Z	CA1J104TU062
C1802	CERAMIC CAP. 330pF/2KV or	CA3D331PAN04
	CERAMIC CAP. RB 330pF/2KV or	CA3D331TE006
	CERAMIC CAP. BL 330pF/2KV	CA3D331XF003
C1803	CERAMIC CAP. 330pF/2KV or	CA3D331PAN04
	CERAMIC CAP. RB 330pF/2KV or	CA3D331TE006
	CERAMIC CAP. BL 330pF/2KV	CA3D331XF003
C1804	ELECTROLYTIC CAP. 100 F/25V M	CE1EMASDL101
C1805	CAP CERAMIC (AX) 4700pF/50V/B/K	CA1J472TU061
C1806	CERAMIC CAP. B K 100pF/1KV or	CCD3AKD0B101
	CERAMIC CAP. B K 100pF/1KV or	CA3A101MR028
	CERAMIC CAP. B K 100pF/1KV or	CCD3AKN0B101
	CERAMIC CAP. B K 100pF/1KV	CCD3AKQ0B101
C1807	POLYESTER FILM CAP. (PB FREE) 0.1 F/100V J or	CA2A104DT018
	CAP POLYESTER FILM 0.1 F/100V J or	CA2A104SER02
	CAP POLYESTER FILM 0.1 F/100V/J/PCMT or	CTA104PKR003
	POLYESTER FILM CAP. 0.1 F/100V J or	CMB104EUR001
	POLYESTER FILM CAP. (PB FREE) 0.1 F/100V J	CA2A104DT026
C1808	CAP CERAMIC (AX) 0.1 F/50V/F/Z	CA1J104TU062
C1809	CERAMIC CAP.(AX) B K 330pF/50V or	CCA1JKT0B331
	CAP CERAMIC (AX) 330pF/50V/B/K	CA1J331TU061
C1810	CAP CERAMIC (AX) 0.1 F/50V/F/Z	CA1J104TU062
C1811	METALIZED POLYESTER FILM CAP. 0.47 F/50V J or	CT1J474DT040
	METALIZED POLYESTER FILM CAP. 0.47 F/63V J or	CT1K474SER01
	CAP POLYESTER FILM 0.47 F/63V/J/PCMT	CTA474PKR002
C1812	CAP CERAMIC (AX) 0.1 F/50V/F/Z	CA1J104TU062
C1813	ELECTROLYTIC CAP. 47 F/25V M	CE1EMASDL470
C1814	CAP METALIZED FILM J0.039 F/630V/J/MPEF or	CA2K393DT045
	CAP METALIZED FILM 0.039 F/630V/J	CTA393PKR004
C1815	CAP CERAMIC (AX) 4700pF/50V/B/K	CA1J472TU061
C1816	ELECTROLYTIC CAP. 10 F/50V M	CE1JMASDL100
C1817	CAP CERAMIC (AX) 0.01 F/50V/F/Z	CA1J103TU062
C1818	ELECTROLYTIC CAP. 1 F/50V M	CE1JMASDL1R0
C1819	SAFTY CAP. 2200pF/250V KX or	CA2E222MR101
	SAFTY CAP. 2200pF/250V or	CCN2EMA0E222
	SAFETY CAP. 2200pF/250V M	CCN2HMN0E222
C1821	CAP ELECTROLYTIC 330 F/400V/M/30/35 or	CA2H331DYG10
	ELECTROLYTIC CAPACITOR 330 F/400V	CA2H331NC226
C1834	ELECTROLYTIC CAP. 100 F/25V M	CE1EMASDL101
C1851	CAP ELE 4700/35V/M/85/D22XL2	CEA472KSN004
C1852	CAP ELE 4700/35V/M/85/D22XL2	CEA472KSN004
C1853	CAP CERAMIC (AX) 0.1 F/50V/F/Z	CA1J104TU062
C1854	CAP ELE 4700/35V/M/85/D22XL2	CEA472KSN004
C1858	ELECTROLYTIC CAP. 2200 F/35V M or	CE1GMZNDL222
	ELECTROLYTIC CAP. 2200 F/35V M or	CE1GMZPDL222
	CAP ELE 2200 F/35V/M/85 or	CEE222KSN002
	CAP ELE 2200 F/35V/M/85	CEE222TEP002
C1859	ELECTROLYTIC CAP. 2200 F/35V M or	CE1GMZNDL222
	ELECTROLYTIC CAP. 2200 F/35V M or	CE1GMZPDL222
	CAP ELE 2200 F/35V/M/85 or	CEE222KSN002
	CAP ELE 2200 F/35V/M/85	CEE222TEP002
C1863	ELECTROLYTIC CAP. 1 F/50V M	CE1JMASDL1R0
C1871	CAP CERAMIC (AX) 0.01 F/50V/F/Z	CA1J103TU062
C1872	POLYESTER FILM CAP. (PB FREE) 0.047 F/100V J or	CA2A473DT018
	CAP POLYESTER FILM 0.047 F/100V J or	CA2A473SER02
	CAP POLYESTER FILM 0.047 F/100V/J/PCMT or	CTA473PKR003
	POLYESTER FILM CAP. 0.047 F/100V J or	CMB473EUR001
	POLYESTER FILM CAP. (PB FREE) 0.047 F/100V J	CA2A473DT026
C1882	CAP CERAMIC (AX) 0.01 F/50V/F/Z	CA1J103TU062
C1883	CAP CERAMIC (AX) 0.01 F/50V/F/Z	CA1J103TU062
	CONNECTORS	
CN1801⚠	CONNECTOR PRINT OSU 3 S B3P4-VH-L or	J3VH030JG015
⚠	CONNECTOR PRINT OSU 03/S/JS-1120-04N03	J3JT03CHY005
CN1810⚠	CONNECTOR B2P3-VH(LF)(SN) or	J3VH020JG001
⚠	CONNECTOR PRINT OSU 02/S/JS-1120-03N02	J3JT02CHY004
CN1851	FPC/FFC CONNECTOR IMSA-9615S-07A-PP-A or	JC96J07ER007
	CONNECTOR PRINT MES 07 S 1.0-11-7P or	JC1107JSH001
	CONNECTOR PRINT MES 00 6232 007 006 800+	JC62G07UG026
CN1852	CONNECTOR PRINT OSU B14B-PH-K-S(LF)(SN) or	J3PHC14JG029
	CONNECTOR PRINT OSU JS-1125-14(K) or	J3JT14CHY001
	CONNECTOR PRINT OSU C S 1-440054-4	J344C14AP001
	DIODES	
D1803	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1804	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1805	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1806	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D1807	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D1808	DIODE ZENER 4V7BSB-T26 or	NDTB4R7BST26
	DIODE ZENER HZS4.7NB2TE-EQ	QDTB0HZS4R7N
D1809	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D1810	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D1811	DIODE ZENER 15BSB-T26 or	NDTB015BST26
	DIODE ZENER HZS15NB2TE-EQ	QDTBHZS15NB2
D1851	DIODE SHOTTKY FCHS20A08	QDWZCHS20A08
D1852	DIODE SHOTTKY FCHS20A08	QDWZCHS20A08
D1853	DIODE ZENER 13BSB-T26 or	NDTB013BST26
	ZENER DIODE MTZJT-7713B or	QDTB00MTZJ13
	DIODE ZENER DO-34 MTZJ13B or	NDTB00MTZJ13
	DIODE ZENER HZS13NB2TE-EQ	QDTBHZS13NB2
D1855	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1871	DIODE ZENER 20BSB-T26 or	NDTB020BST26
	DIODE ZENER HZS20NB2TE-EQ	QDTBHZS20NB2
D1872	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D1873	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D1891	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
	ICS	
IC1801	IC 0V-SWITCHING RESONANT CONVE TEA1611T/N1.518	NSCA0TNXP002
IC1831⚠	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV

Ref. No.	Description	Part No.
IC1832⚠	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
	TRANSISTORS	
Q1801⚠	FET MOS 2SK3561(Q) IDSS100UA or	QFWZ2SK3561Q
⚠	MOS FET 2SK3561(Q.M) or	QFQZSK3561QM
⚠	MOS FET TK8A50D	QFWZTK8A50DQ
Q1802⚠	FET MOS 2SK3561(Q) IDSS100UA or	QFWZ2SK3561Q
⚠	MOS FET 2SK3561(Q.M) or	QFQZSK3561QM
⚠	MOS FET TK8A50D	QFWZTK8A50DQ
Q1803	TRANSISTOR 2SA950-O (TE2 F T) or	QQS002SA950F
	TRANSISTOR 2SA950-Y(TE2 F T) or	QQSY02SA950F
	TRANSISTOR (PB FREE) KTA1271-Y-AT/P or	NQSYKTA1271P
	TRANSISTOR (PB FREE) KTA1271-O-AT/P or	NQS0KTA1271P
	PNP TRANSISTOR 2SA1981 or	NQS002SA1981
	PNP TRANSISTOR 2SA1981Y-AT	NQSY02SA1981
Q1804	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1871	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q1882	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1883	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1884	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
	RESISTORS	
R1801	RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
	RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R1802	RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
	RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R1803	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1804	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001

Ref. No.	Description	Part No.
R1805	RES CARBON FILM T 1/4W J 39k Ω or	RCX4393T1001
	RES CARBON FILM 1/4W J 39k Ω	RCX4393FS002
R1806	RES CARBON FILM T 1/4W J 390 Ω or	RCX4391T1001
	RES CARBON FILM 1/4W J 390 Ω	RCX4391FS002
R1807	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R1808	RES CARBON FILM T 1/4W J 82k Ω or	RCX4823T1001
	RES CARBON FILM 1/4W J 82k Ω	RCX4823FS002
R1809	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R1810	RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
	RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1811	RES CARBON FILM T 1/4W J 33k Ω or	RCX4333T1001
	RES CARBON FILM 1/4W J 33k Ω	RCX4333FS002
R1812	RES CARBON FILM T 1/4W J 68k Ω or	RCX4683T1001
	RES CARBON FILM 1/4W J 68k Ω	RCX4683FS002
R1813	RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
	RES CARBON FILM T 1/4W J 47 Ω	RCX4470T1001
R1814	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1815	RES CARBON FILM 1/4W J 22k Ω or	RCX4223FS002
	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R1816	RES CARBON FILM T 1/4W J 47k Ω or	RCX4473T1001
	RES CARBON FILM 1/4W J 47k Ω	RCX4473FS002
R1817	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1818	RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
	RES CARBON FILM T 1/4W J 47 Ω	RCX4470T1001
R1819	CEMENT RESISTOR 2W J 0.039 Ω	RWJL39PAK001
R1820	CEMENT RESISTOR 2W J 0.039 Ω	RWJL39PAK001
R1821	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1822	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1824	RES CARBON FILM T 1/4W J 100 Ω or	RCX4101T1001
	RES CARBON FILM 1/4W J 100 Ω	RCX4101FS002
R1851	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R1852	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1853	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1854	RES CARBON FILM T 1/4W J 6.8k Ω or	RCX4682T1001
	RES CARBON FILM 1/4W J 6.8k Ω	RCX4682FS002
R1855	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1857	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R1871	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R1872	RES CARBON FILM T 1/4W J 4.7k Ω or	RCX4472T1001
	RES CARBON FILM 1/4W J 4.7k Ω	RCX4472FS002
R1873	RES CARBON FILM T 1/4W J 82 Ω or	RCX4820T1001
	RES CARBON FILM 1/4W J 82 Ω	RCX4820FS002
R1874	RES CARBON FILM 1/4W J 2.7k Ω or	RCX4272FS002
	RES CARBON FILM T 1/4W J 2.7k Ω	RCX4272T1001
R1875	RES CARBON FILM 1/4W J 3.9k Ω or	RCX4392FS002
	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R1876	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R1877	RES CARBON FILM T 1/4W G 12k Ω	RCX4123T1002
R1878	RES CARBON FILM T 1/4W G 6.8k Ω	RCX4682T1002
R1879	RES CARBON FILM T 1/4W G 10k Ω	RCX4103T1002
R1880	RES CARBON FILM T 1/4W G 3.3k Ω	RCX4332T1002
R1881	RES CARBON FILM 1/4W J 2.7k Ω or	RCX4272FS002
	RES CARBON FILM T 1/4W J 2.7k Ω	RCX4272T1001
R1886	RES CARBON FILM T 1/4W J 390 Ω or	RCX4391T1001

Ref. No.	Description	Part No.
	RES CARBON FILM 1/4W J 390 Ω	RCX4391FS002
R1887	RES CARBON FILM 1/4W J 22k Ω or	RCX4223FS002
	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R1888	RES CARBON FILM T 1/4W J 47k Ω or	RCX4473T1001
	RES CARBON FILM 1/4W J 47k Ω	RCX4473FS002
R1889	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R1890	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1892	RES CARBON FILM T 1/4W J 4.7k Ω or	RCX4472T1001
	RES CARBON FILM 1/4W J 4.7k Ω	RCX4472FS002
	MISCELLANEOUS	
B11	HEAT SINK EAJ ASSEMBLY A81H0UH	1EM424644
B12	HEAT SINK EAK ASSEMBLY A81H0UH	1EM424646A
BC1801	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC1851	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC1852	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
L3	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
T1801⚠	PFC CHOKE JCC41-0026	LLEE0Z0XB009
T1831⚠	TRANS INV SRX40ER-E240000H8501	LTZ4PZ0TE003

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	----------
	RESISTORS	
R108	RES CARBON FILM 1/4W J 220 Ω or	RCX4221FS002
	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R109	RES CARBON FILM T 1/4W G 47k Ω	RCX4473T1002
R111	RES CARBON FILM T 1/4W G 9.1k Ω	RCX4912T1002
R113	RES CARBON FILM T 1/4W G 11k Ω	RCX4113T1002
R114	RES CARBON FILM T 1/4W G 16k Ω	RCX4163T1002
R115	RES CARBON FILM T 1/4W G 27k Ω	RCX4273T1002
R116	RES CARBON FILM T 1/4W G 56k Ω	RCX4563T1002
	SWITCHES	
SW101B	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW103B	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW104B	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW105B	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW106B	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW107B	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA Consists of the following:	----------
	CAPACITORS	
C113	ELECTROLYTIC CAP. 47 F/16V M H7 or	CE1CMAVSL470
	CAP ELE 47 F/16V/M/85 H7	CEC470KSN003
C115	CERAMIC CAP.(AX) B K 330pF/50V or	CCA1JKT0B331
	CAP CERAMIC (AX) 330pF/50V/B/K	CA1J331TU061
	DIODES	
D104	LED GREEN 333GT/E(FNA) or	NPWZ33GTEFNA
	LED(GREEN) LTL-4234	NPWZ0LTL4234
D105	LED L-53HT or	NP4Z000L53HT
	LED 333HT/E-L or	NPHL00333HTE
	LED 333HT/E-K	NPHK00333HTE
	RESISTORS	
R123	RES CARBON FILM 1/4W J 220 Ω or	RCX4221FS002
	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R124	RES CARBON FILM 1/4W J 220 Ω or	RCX4221FS002
	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R126	RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R127	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R128	RES CARBON FILM T 1/4W J 100 Ω or	RCX4101T1001
	RES CARBON FILM 1/4W J 100 Ω	RCX4101FS002
	MISCELLANEOUS	
CL103A	WIRE ASSEMBLY 3PIN 3PIN/250MM/AWG28/ UL1	WX1A03P0-205
RS102	SENSOR REMOTE RECEIVER KSM-712TH2E or	USESJRSKK044
	SENSOR REMOTE RECEIVER KSM-712TH2M	USEJRS0KK001

JUNCTION CBA

Ref. No.	Description	Part No.
	JUNCTION CBA Consists of the following:	----------
	CONNECTOR	
CN103	242 SERIES CONNECTOR TUC-P06X-B1 WHT ST	JCTUB06TG002
	MISCELLANEOUS	
CL102A	WIRE ASSEMBLY 6PIN 6PIN/530MM/AWG26/ UL2	WX1A03P0-002

Ref. No.	Description	Part No.
TU1	TUNER UNIT DTOS40AML201A	UTNPSG0SM002

LH8-M40BB/LT8-M40BB
A03P0EP/P1EP
2010-04-23